

To: Joshua Hanson[joshua.hanson@sol.doi.gov]
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[GSENM DOIMemo 11.06.1998.pdf](#)
[GSENM publications as of April 2016 Final.xlsx](#)
[GSENM List of Historic and Scientific Objects of Interest.xlsx](#)

Hi Josh,
Attached are a couple of references for your review.

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Matt Betenson
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Grand Staircase-Escalante National Monument
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THE SECRETARY OF THE INTERIOR
WASHINGTON

NOV 8 1996

Memorandum

To: Director, Bureau of Land Management

From: Secretary *[Signature]*

Subject: Management of the Grand Staircase - Escalante National Monument

On September 18, 1996, the President created by Proclamation the Grand Staircase - Escalante National Monument in Utah. This is the first National Monument in history for which management responsibility has been given to the Bureau of Land Management (BLM), offering BLM a highly visible opportunity to demonstrate its stewardship. The purposes of this memorandum are: (a) to direct that you issue interim guidance for managing the Monument during the next three years; and (b) to direct you to prepare the management plan for the Monument for my adoption by the end of that period.

The President's Proclamation directs management of the Monument pursuant to applicable legal authorities, including the Federal Land Policy and Management Act (FLPMA) and the National Environmental Policy Act (NEPA). Further, I want to make certain that we work very closely with the State of Utah as our efforts proceed. While stewardship of the Grand Staircase - Escalante National Monument is the responsibility of this Department, I believe an effective working relationship with the State is crucial to our development of an effective management plan. The State possesses expertise in numerous management disciplines, and its capabilities will complement our own.

INTERIM MANAGEMENT DIRECTION

The public should have more explicit information concerning the management of specific activities during the three year interim period. Accordingly, I ask that you issue appropriate guidance to field managers as soon as possible. Field managers should be fully conversant with that guidance and initiate efforts to provide information to the public as necessary.

The President's Proclamation cited the Monument's unique geological, paleontological, archeological, biological and historical values. It also stated that valid existing rights (VER) must be recognized, withdrew Federal lands and interests in lands within the Monument from entry, location, selection, sale, leasing, or other disposition (except exchange) under the public land laws including, among others, the mineral leasing and mining laws, and stated that existing grazing uses shall continue to be governed by applicable laws and regulations other than the Proclamation. As a general principle,

actions that are not precluded by the Proclamation and which do not conflict with the established purposes of the Monument may continue.

DEVELOPING THE MONUMENT MANAGEMENT PLAN

The President's Proclamation directed me to prepare, within three years, a management plan for the Monument and any necessary regulations. You should take the lead in preparing the plan and proposing it for my adoption. In preparing the plan, you must make certain that it reflects the purposes for which the Monument was established.

In order to assure an effective planning effort, you should develop a detailed inventory of significant resources within the Monument's boundaries which have been identified thus far through available sources. The inventory should have a usable format and be easy to update as new information becomes available. Attached is a bibliography of monument resources that was completed in connection with the Proclamation. Although there is considerable understanding of the Monument's attributes, much more work is needed to identify, assess, interpret and protect them in an integrated manner.

In addition to the State, local and Tribal governments, the private sector, the public and other Federal agencies have interests and insights as to managing the Monument's resources and integrating the Monument with local community development. I expect you to be energetic and innovative in working with these entities. Many models for involving our neighbors have been developed and implemented. Useful lessons can be drawn from these models throughout the West by both government and non-government entities.

The management of the Grand Staircase - Escalante National Monument is one of the Department's most visible and important priorities. Your work will have a profound impact on the public's assessment of the Bureau and of Federal land management in general. I know that the challenges of managing the Monument and preparing its management plan are significant and encompass a very broad variety of scientific, historical, and economic considerations. The Bureau will have my full support and encouragement as your efforts proceed.

Attachment

Bibliography of Sources Concerning Objects of Interest in the Grand Staircase - Escalante National Monument

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Grand Staircase - Escalante National Monument
List of Historic and Scientific Objects of Interest

Objects of Geologic Interest

Description: Perennial streams enter entrenched canyons in white Navajo and deep-red Windgate Sandstone. Deer Creek, Steep Creek, and The Gulch have perennial flows of clear cold water. The Gulch leads up into the spectacular Circle Cliffs where remarkable specimens of petrified wood (60 ft. logs) exist in the Morrison and Chinle formations.

Location: Escalante - Steep Creek WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: White Canyon cuts through the Kaibab Limestone to the Coconino Sandstone, the oldest stratum in the Upper Escalante drainage.

Location: Escalante - Studhorse Peaks unit

Source: Davidson, E.S., Geology of the Circle Cliffs Area, Garfield and Kane Counties, Utah, 1967, p. 10

Description: Big Spencer Flat Road and the V Road is site of "thunderball" iron concretions known as Moqui marbles. These oddities weather out of the Navaho sandstone and are a popular recreation feature.

Location: North Escalante Canyons WSA

Source: Sargent, K.A., Environmental Geologic Studies of the Kaiparowits Coal-Basin, Utah, p. 16, and Utah BLM Statewide Final Wilderness EIS, 1990

Description: The Waterpocket Fold tops out at Deer Point (7,243 feet). Most of the Waterpocket Fold is in the Capitol Reef National Park where it is a major landmark.

Location: Escalante - Colt Mesa unit

Source: Utah Wilderness Coalition, Wilderness at the Edge, p. 189, and Davidson, E.S., Geology of the Circle Cliffs Area, Garfield and Kane Counties, Utah, 1967, p. 61

Description: The inner gorges of the upper Moody Canyons cut into the relatively harder Kaibab Limestone and Coconino Sandstone (oldest exposed layer in this region).

Location: Escalante - Colt Mesa unit

Source: Utah Wilderness Coalition, Wilderness at the Edge, p. 189

Description: Dry Valley Creek Canyon. A waterfall blocks the entrance to Dry Valley Creek Canyon and consequently, the canyon remains in its natural condition. A perennial stream cuts through alluvial benches. It is relict and probably possesses important scientific values.

Location: Mud Springs Canyon WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: The East Kaibab Monocline or the Cockscomb is unique as a Colorado

Plateau structure. Its alignment with the Paunsaugant, Seevier, and Hurricane faults suggest that it too could be a fault at depth. It extends from the Colorado River north to Canaan Peak and is a major landmark.

Location: Kaiparowits Plateau - The Cockscomb WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: The Blues - a Cretaceous shale badlands, richly colored and contrasting with adjacent pink sandstone cliffs that forms a significant part of the vista for visitors to Bryce Canyon National Park. The Kaiparowits formation is well exposed here represents an accumulation of exceedingly rapid proportions and an immature sedimentary region which is not well displayed in any other formation in the Colorado Plateau.

Location: The Blues WSA (near Bryce Canyon)

Source: Welch, S.L., Rigby, J.K., Hamblin, W.K., A Survey of Natural Landmark Areas of the North Portion of the Colorado Plateau, 1980, p. 248

Description: Fiftymile Mountain is a complex of deep canyons, upwarps, monoclines, hogbacks and a spectacular 42-mile long Straight Cliffs wall, topping a thousand-foot-high cliffline of the Summerville, Morrison and Dakota formations. This complex marks the edge of the Kaiparowits Plateau.

Location: Kaiparowits Plateau - Fiftymile Mountain WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Ancient coal fires of Right Hand Collet Canyon have left surface remains in the form of clinkers and deep red ash. These remains dominate the visual character of the drainage.

Location: Carcass Canyon WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Arch. Span of 40 feet located in Calf Canyon, and is visible from the Alvey Wash road.

Location: Carcass Canyon WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Burning Hills - naturally occurring underground coal fires have turned steep and rugged exposed hilltops a distinctive red.

Location: Burning Hills WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Devils Garden - oddly shaped arches (including Metate Arch) and rock formations in the hills at the foot of the cliffs marking the Kaiparowits Plateau.

Location: Carcass Canyon WSA (east of WSA)

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: This area possesses exceptional scenic values and contains a

portion of the Cockscomb, a prominent southern Utah geologic feature. the Cockscomb forms 2 parallel knife-edged ridges with a bisection V-shaped trough. Flatirons, small monoliths, and other colorful formations are present on the west ridge. These major features of south central Utah cover over 4,000 acres.

Location: Mud Spring WSA.

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: An interesting fold in Henrieville Creek along the northwest boundary of the WSA is of geologic interest and a sightseeing attraction.

Location: Mud Spring WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Window Wind Arch above the middle trail has scenic value because of its location on the very edge of the Straight Cliffs. The Straight Cliffs escarpment is major landmark in south-central Utah and an important scenic feature within view from the Hole-in-the-Rock road. Woolsey Arch is located in Rock Creek Basin, an area of colorful Navaho sandstone and high cliffs.

Location: Fifty Mile Mountain WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Unique because it consists of 2 prominent southern Utah physiographic systems. It includes the eastern most extension of the White Cliffs component of the famous ascending staircase, cliff and terrace physiography, the Vermillion, White, and Pink Cliffs; and east of the Paria river, the dividing point is the landscape representative of the Glen Canyon physiography of sculptured, dissected, and exposed Navaho sandstone. The area where these merge between Deer Range and Rock Springs Bench is a highly scenic complex and colorful landscape.

Location: Paria-Hackberry WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: The Vermillion Cliffs with its associated Wingate Sandstone cliffs, colorful Chinle badlands, and canyons with there multiple colors and the intensity of coloration contribute to high scenic quality. Included in this landscape are Hackberry Canyon, Paria River Valley, Hogeye Canyon, the Pilot Ridge-Starlight Canyon-Kirbys Point area and Eight Mile Pass.

Location: Paria-Hackberry WSA.

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: An area of high scenic value include the breaks of the Rush Beds and the west wall of Cottonwood Canyon, upper tributaries to Hackberry Canyon, Death Valley Draw, and the exceptional Navajo Sandstone domes and fin formations on either side of lower Hackberry Canyon.

Location: Paria-Hackberry WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Four ONA's designated to preserve "unique scenic values and natural wonders". North Escalante Canyon (5,800 acres), The Gulch (3,430), Escalante Canyons (480 acres), Phipps-Death Hollow (12 more outside WSA)

 Location: North Escalante Canyons WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Location: North Escalante Canyons/The Gulch ISA

Description: This area is geologically complex and has some of the most outstanding canyon scenery in the country. Harris Wash a canyon of the classic Escalante River drainage canyon form with many entrenched meanders in the Navajo Sandstone.

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: A unique feature of the Burning Hills is the red coloration in the landscape is the result of geological changes attributed to the naturally occurring coal fires. The coloration creates a highly scenic area.

Location: Burning Hills WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: The White Cliffs are high white or yellow cliffs of Navajo Sandstone. Vary in height from 600' at Deer Springs Point bench to 1,200' at Deer Springs Point and the Sheep Creek Bull Valley Gorge-Paria River confluence. The cliffs consistently reach a 1000' in height and the cliffline is interrupted by 8 canyons.

Location: Paria-Hackberry WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: This area contains twenty-four undeveloped springs. Ten are located in upper Paria, 6 in hackberry, 5 on the eastern border of Cottonwood Creek, and 3 on west boundary. There are also 6 developed springs. These are significant features in this arid environment.

Location: Paria-Hackberry WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Phipps-Death Hollow ONA (12/23/70) contains 34,288 acres managed to preserve scenic values and natural wonders.

Location: Phipps-Death Hollow ISA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Arches. Peek-a-boo Rock, Wahweap Window, Jacob Hamblin Arch, Starlight Arch, Cobra Arch, Sam Pollack Arch, Woolsey Arch, and several more unnamed arches and natural bridges.

Location: Kaiparowits Plateau and adjacent areas

Source: Sargent, K.A., Environmental Geologic Studies of the Kaiparowits Coal-Basin, Utah.

Description: Sand-calcite crystals from the Morrison Formation. These crystals are the first reported occurrence from rocks of Jurassic age and only reported sand crystals in southern Utah.

 Location: Kaiparowits Plateau

Source: Sargent, K.A., Environmental Geologic Studies of the Kaiparowits Coal-Basin, Utah. p. 18

Description: Circle Cliffs in the northeast portion of WSA features intensively colored red, orange, and purple Chinle mounds and ledges at the base of Wingate Sandstone cliffs. Vertically jointed cliffs banded with red, yellow, and white colors and bench tops and upper cliff faces possess innumerable orange-red Kayenta Sandstone knobs. One of most spectacular and distinctive landscapes on the Colorado Plateau.

Location: Steep Creek WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Area includes Escalante Natural Bridge (130' high, 100' span) and 4 other natural bridges and arches.

Location: Phipps-Death Hollow WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: The Gulch is a major geologic feature. Deeply entrenched very sheer red straight line Wingate Sandstone walls. High ridges and slickrock peaks. Ridges drop fairly abruptly to canyons below.

Location: Steep Creek WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Lamanite Natural Bridge. Actually a large arch with good symmetry and form. Located in an impressive setting in a deep side canyon to The Gulch.

Location: Steep Creek WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Petrified wood. Upper Gulch-Circle Cliffs contains large, unbroken logs of petrified wood (NEA 2,213 acres). Maximum log length 36'. The scenic values of these logs is enhanced by their colorful surroundings.

Location: Steep Creek WSA

Source: Utah Statewide Wilderness EIS, 1990 W FEIS 3B 19, and Sargent, K.A., Environmental Geologic Studies of the Kaiparowits Coal-Basin, Utah. p.13.

Description: Outstanding scenic values include the upper portion of Paradise Canyon where sandstone in the Wahweap Formation outcrops as colorful walls and cliffs. Ponderosa pine growing in the sandstone enhance the scenic values. Two sandstone monoliths or fins above Alvey Wash are prominent geological features.

Location: Death Ridge WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: The area contains a unique canyon and bench system. The entire ISA contains outstanding scenery. Examples include the area east of Horse Canyon. Four canyons have isolated 10 benches of varying size. Many bench tops have

intricate pattern of innumerable orange-red Kayenta Sandstone knobs. Wolverine Canyon and Death Hollow have extremely narrow and convoluted sections. Another feature, Harris Wash a canyon of the classic Escalante River drainage canyon form with many entrenched meanders in the Navajo Sandstone.

Location: North Escalante Canyons/The Gulch ISA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Mollie's Nipple, an erosional remnant is a major landmark in the area.

Location: Kaiparowits Plateau.

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Natural Arches. Sam Pollock Arch, located at the head of a tributary drainage of Hackberry Canyon, and Starlight Arch located west of No Man's Mesa.

Location: Paria-Hackberry WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Area of diverse geology represented by spectacular deep canyons. The Escalante River canyon is 1100 feet deep. The canyon walls are rough and broken and the canyon is narrow and it meanders. Pure white to golden sandstone has been eroded into expanses of slickrock. Death Hollow Canyon is 1,000' feet deep and meandering. The extensive upper basin through which Mamie Creek flows is a extremely dissected area of canyons, tanks, other formations. Red layers of Carmel Formation cap high mesas and ledges of the exposed Kayenta Formation.

Location: Phipps-Death Hollow ISA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Petrified wood deposits just west of the Old Paria Townsite and in Hackberry Canyon. Both are in the Chinle formation.

Location: Paria-Hackberry WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: All the topographic features of the Kaiparowits region have been developed in sedimentary rocks. The Kaiparowits Plateau is a slightly tilted sedimentary mass that extends as a narrow mesa from the High Plateaus to Glen Canyon 70 miles distant. Its culminating point, Canaan Peak is an outlier of the Table Cliff Plateau; the Paria Plateau is a huge block of sandstone, the Waterpocket monicline is a ridge of folded rock intricately dissected and flanked by hogbacks, and the broken "comb" in the vicinity of Paria is the edge of sandstone beds upturned in the East Kaibab fold. The Circle Cliffs are inward-facing walls of sandstone that rim an oval depression. These prominent features are but large-scale examples of the mesas, buttes, and ridges that characterize the landscape of southern Utah.

Location: Kaiparowits Plateau region

Source: Gregory, H.E. and Moore, R. C. The Kaiparowits Region: A Geographic and Geologic Reconnaissance of Part of Utah and Arizona. 1931.

Description: Paria River from Colorado River to its source, identified by NPS as

possessing values that may be of national significance, potential to be included in the National Wild and Scenic River System.

Location: Paria-hackberry WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Escalante River from Lake Powell to its source, a section of 14.9 miles, was designated as for study as a candidate Wild and Scenic River by the Secretary of the Interior on 10/11/70.

Location: Phipps-Death Hollow ISA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Lower Calf Creek Falls. Calf Creek Canyon is characterized by red alcoved walls, 2 waterfalls, and extensive expanses of white slickrock. Lower Calf Creek Falls drops 126' and Upper Calf Creek's drop is 86'. High educational values associated with interpretation of these areas.

Location: Phipps-Death Hollow ISA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: The area contains 40 miles of perennial streams, a significant feature in this arid environment.

Location: Phipps-Death Hollow ISA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Objects of Paleontologic Interest, August, 1996

Description: Fossil assemblage photographs. Typical mollusks from Tropic Shale, south of Escalante include straight cone edphalopods, ammonites, gastropods, and pelecypods and Cretaceous sharks teeth from the Straight Cliffs Formation.

Location: Kaiparowits Plateau

Source: Sargent, K.A., Environmental Geologic Studies of the Kaiparowits Coal-Basin, Utah, pp 14-15

Description: Gray Cliffs/Pink Cliffs - This sequence of rocks may contain one of the best and most continuous records of Late Cretaceous terrestrial life in the world. Formation has yielded early mammals, lizards, dinosaurs, crocodillians, turtles, mollusks.

Location: Kaiparowits - The Blues WSA

Source: BLM, Escalante/Kanab RMP - Grand Staircase Ecosystem Analysis, 1994

Description: Fossils deemed by the Museum of Northern Arizona in a 1976 study to be of major importance. They are found in the Cretaceous Wahweap Formation outcrops include abundant fragments of turtle shells and dinosaurs, as well as several crocodile teeth. There is an excellent chance that mammal fossils will be found

Location: Kaiparowits Plateau - Nipple Bench unit

Source: BLM, Kaiparowits power project environmental impact statement, 1976

Description: The Straight Cliffs Formation is limited to the southern Utah area. It contains primitive mammals including one of the potentially oldest marsupial fossils identified.

 Location: Kaiparowits Plateau

Source: BLM, Warm Springs Project Preliminary Draft EIS, 1996

Description: Invertebrate and vertebrate specimens found Straight Cliffs, Tropic Shale, and Dakota Formations. 13 collection sites recorded (gastropods, cephalopods in upper Cretaceous Formations, vertebrate in Dakota and Tropic Shales). Likely to occur along entire length of the Straight Cliffs

 Location: Carcass Canyon WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: The Kaiparowits is of interest in understanding the evolution of mammals and other terrestrial vertebrates. Very little is known of Cretaceous mammals prior to the latest part of that period. The mid-Cretaceous mammalian twilight zone is spanned by the fossiliferous, terrestrial rock units of the Kaiparowits region. They contain unique evidence bearing on the early diversification of important mammalian groups of the Late Cretaceous. The thickness, continuity, and broad temporal distribution of the Kaiparowits sequence provides the opportunity to document changes in terrestrial vertebrate assemblages over a wide span of Late Cretaceous time.

 Location: Kaiparowits Plateau

Source: Eaton, Jeffrey G. and Cifelli, Richard L. Preliminary report on Late Cretaceous mammals of the Kaiparowits Plateau, southern Utah, 1988

Description: Extremely significant fossils including marine and brackish water mollusks, turtles, crocodillians, lizards, dinosaurs, fishes, and mammals have been recovered from the Dakota formation, Tropic shale, Straight Cliffs Formation (Tibbet Canyon, Smoky Hollow, and John Henry members), and Wahweap formation in the area around the proposed Andalex mine and some localities lie directly along the proposed haul routes. This sequence of rocks (including the overlying Wahweap and Kaiparowits formations) contain perhaps the best and most continuous record of Late Cretaceous terrestrial life in the world

 Location: Kaiparowits Plateau

Source: Eaton, Jeffrey G., Personal correspondence to Mr. Mike Noel, BLM, 1991

Objects of Prehistoric Interest

Description: Sixty sites have been recorded and the potential for additional sites is exceptionally high. Sites discovered to date include lithic scatters, 13 rockshelters (some w/storage cists and rock art), 1 pithouse village site and 1 structure (probably of Anasazi origin). Some of the rock art and rock shelter and 1 campsite are potentially eligible for nomination to the NRHP.

Location: North Escalante Canyons/The Gulch ISA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Friendship Cove Pictograph site nominated to NRHP. This site consists of a set of large Fremont style pictographs painted on the face of a large sandstone cliff.

Location: Phipps-Death Hollow ISA, eastern part

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Forty-four sites of diverse types have been recorded in the area. 14 rock art (petroglyph and pictographs sites (2 from Fremont culture), 1 Pithouse village site, lithic scatters of Paiute and Anasazi, and 6 rockshelters have been discovered. Potential for more sites is good.

Location: Phipps-Death Hollow ISA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Situated at the intersection of three major prehistoric cultures the Plateau has long been a magnet for archeological study. It has been recognized that the Kaiparowits Plateau might contain important clues that would aid in answering questions in the archeology of the Southwest.

Location: Kaiparowits Plateau

Source: Utah Wilderness Coalition, Wilderness at the Edge, p. 147 and Lister, Florence C., Kaiparowits Plateau and Glen Canyon prehistory, an interpretation based on ceramics, 1964

Description: Fiftymile Mountain Archeological District contains more than 400 sites including Anasazi habitations and granaries. Important scientific value. Some of the most significant cultural resources in the Four Corners area. Archaeological District (47,325 acre) has been nominated to NRHP. Majority of sites are masonry structures (of 1-10 rooms). Most are of Virgin Anasazi origin but include sites attributed to Fremont, Hopi, and Paiute. Navaho are also expected of occupying the area. 4,000 total sites may be located in WSA.

Location: Fiftymile Mountain WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Sixty-five sites have been recorded. They include lithic and ceramic scatters, masonry structures (granaries and storage cists), one rock shelter. Masonry and some lithic/ceramic associated with Virgin Anasazi/Virgin-Kayenta Anasazi. Two are Pueblo II-III time period. Some sites are associated with Paiute-age or Archaic-age peoples. At least 8 sites in this area are eligible for nomination to the NRHP.

Location: Wahweap WSA

 Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: High concentration of prehistoric sites. Although surveys are incomplete for the Warm Creek unit more than 600 sites have been found ranging from lithic scatters and campsites to rockshelters.

Location: Kaiparowits Plateau/Warm Creek unit

Source: BLM, Kaiparowits power project environmental impact statement, 1976

Description: Part of a larger area extensively used by the Kayenta Anasazi and later the Southern Paiute Indians. Site densities expected to be moderate to high.

Location: Kaiparowits Plateau/Squaw Canyon unit

Source: ERT, 1980, Kaiparowits coal development and transportation study, final report

Description: Prehistoric site densities are high on top of Nipple Bench. Sites represent Fremont, Virgin Anasazi and Kayenta Anasazi. The sites represent complex associations of features and artifacts and indicate permanent or extensive camps in rock shelters.

Location: Kaiparowits Plateau/Nipple Bench unit

Source: Fish, Paul, Preliminary Report Kaiparowits Power Project

Description: Six sites have been recorded. One is Pueblo II Anasazi occupation site, with others unidentified.

Location: Burning Hills WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: One hundred-five sites (primarily lithic scatters) have been recorded covering a broad period of occupation. Ten rockshelters w/storage cists or storage caches, 1 w/masonry room, 3 w/granaries associated with Anasazi or Fremont have been discovered. Additional sites include petroglyph and pictograph panels associated with shelter sites and 1 burial site.

Location: Carcass Canyon WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: One hundred thirty-four documented sites represent virtually all known prehistoric cultures in southern UT (Archaic, Fremont, Anasazi, Southern Paiute). 8,000 years of prehistory are represented. The sites primarily represent temporary habitation by hunter gatherers.

Location: Death Ridge WSA

Source: BLM Utah Statewide Wilderness EIS, 1990, and Hauck, F.R., Cultural Resource Evaluation of South-Central Utah, 1977-1978

Description: The area contains 41 recorded sites and based on surveys may contain exceptionally high densities of sites. Known sites include rockshelters, pit houses, lithic scatters, and masonry structures. Pictograph panels are in Deer Creek Canyon and petroglyphs are found in Snake Creek Canyon.

A study located and estimated 612 sites per 23,000 acres, 564 potentially eligible for nomination to the NRHP (southern border of WSA). Another inventory estimated 360 sites per 23,000 acres at the northern border of the WSA.

Location: Paria-Hackberry WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: The Kayenta Pueblo culture inhabiting the Straight Cliff and portions of the Escalante River drainage between A.D. 1000 and 1200 were likely in contact with the Fremont culture. Although both inhabited the area at the same time and competed for limited agricultural lands there is no evidence of open conflict during this time. Some modifications of pottery making techniques between the two cultures indicates that there was trade and exchange between them. Little is known positively about the Kayenta culture, and additional research in this area could provide valuable insight on interactions between the two cultures.

Location: Straight Cliffs WSA

Source: Lister, Kaiparowits Plateau and Glen Canyon Prehistory: An interpretation based on ceramics. 1964.

Objects of Historic Interest

Description: Dance Hall Rock/Hole-in-the-Rock Trail. While the Hole-in-the-Rock Trail was under construction in 1879, Mormon Pioneers camped at Fortymile Spring and held meetings and dances in the shelter of Dance Hall Rock. Designated historical site by DOI 1970.

Location: Two miles west of the Glen Canyon NRA on the Hole in the Rock Trail

Source: Utah Wilderness Coalition. Wilderness at the Edge. -- p. 182

Description: Historic route constructed in 1879 to provide access from Escalante to areas on the opposite side of the San Juan River in Southeast Utah.

Location: Historic trail running from Escalante to Hole in the Rock in Glen Canyon NRA

Source: Lambrechtse, Rudi. Hiking the Escalante, 1985

Description: Boulder Mail Trail. Used to carry mail between Escalante and Boulder beginning in 1902. Much of trail still visible where necessary to construct through slickrock. Nominated to NRHP. Popular backpacking route.

Location: Phipps-Death Hollow ISA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Boynton Road. Constructed 1909 as short cut between Escalante and Salt Gulch. Abandoned after 2 years because of flooding. Visible over approx 9 of its 10 miles.

Location: Phipps-Death Hollow ISA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Escalante-Boulder telephone line: First Boulder-Escalante telephone line constructed by Forest Service in 1911 providing first phone service to area. Still visible between Antone Flat and Sand Creek.

Location: Phipps-Death Hollow ISA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Washington Phipps grave. A historical grave site of an early pioneer shot in 1878 in a dispute with his partner John Boynton. Provided the namesake for the area.

Location: Phipps Death Hollow

Source: Lambrechtse, Rudi. Hiking the Escalante, 1985

Description: Old Boulder Road. Main route between Escalante and Boulder until the CCC built Hell's Backbone Road and Highway 12 in 1930's to replace it.

Location: Phipps-Death Hollow ISA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: The Hattie Green mine, an early copper working located on the crest of The Cockscomb.

Location: The Cockscomb WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Old Paria Townsite was established in 1874 on the bench above the eastern bank of the Paria River by Mormon settlers who attempted to farm the bottomlands. Site was abandoned in 1890.

Location: adjacent to Paria-Hackberry WSA

Source: Abby, Edward and Hyde, Philip. Slickrock p.46

Description: Old Paria Townsite movie set. Built in the 1960's to film several movies. Now abandoned but still a popular recreation destination.

Location: adjacent to Paria-Hackberry WSA

Source: Abby, Edward and Hyde, Philip. Slickrock p.46

Objects of Biological Interest

Description: Riparian zones are corridors for many of the region's species, including neotropical migrant birds. The corridors (including the Escalante, and Paria Rivers and Johnson Creek and their tributaries) bisect the region north to south, allowing for exchange of individuals among different animal populations. The importance of movement corridors to the long term viability of animal populations is of great scientific and management interest. This area would afford many opportunities to enhance this ecological issue.

Location: Entire monument proposal including the Escalante area, Kaiparowits Plateau, and areas west to Kanab including the Escalante, Paria rivers and Johnson Creek

Source: Edwards, Tom, 1996; Knopf, 1985; Armbruster and Lande 1993; Beier, 1993; Belovsky, 1987; Brown, 1971; Davidson et al. 1996; Diamond, 1981; Fahrig and Merriam, 1985; Frankel and Soule, 1981; Harris and Gallagher, 1989; Heaney, 1984; IUCN, 1978; Kushlan, 1979; Lomolino and Channell, 1995; Meffe and Carroll, 1994; Newmark, 1995; Noss, 1993; Patterson, 1984; Pickett and Thompson, 1978; Primack, 1993; Saunders et al., 1991; Shaffer, 1981; Soule, 1987; Soule and Wilcox, 1980; Wegner and Merriam, 1979; Wilcove et al., 1986; Willis, 1974.

Description: 25 miles of riparian corridor in unit. Connects mountains to desert lowlands. Has great concentration of hanging gardens and riparian vegetation, including relictual populations in canyon bottoms. Also supports many rock crevice communities. Connects other protected areas. High plant endemism, due to large extent of parent material exposure.

Location: Escalante River

Source: BLM Wilderness EIS; Knopf, 1985; Shulz, 1993; Armbruster and Lande 1993; Beier, 1993; Belovsky, 1987; Brown, 1971; Davidson et al. 1996; Diamond, 1981; Fahrig and Merriam, 1985; Frankel and Soule, 1981; Harris and Gallagher, 1989; Heaney, 1984; IUCN, 1978; Kushlan, 1979; Lomolino and Channell, 1995; Meffe and Carroll, 1994; Newmark, 1995; Noss, 1993; Patterson, 1984; Pickett and Thompson, 1978; Primack, 1993; Saunders et al., 1991; Shaffer, 1981; Soule, 1987; Soule and Wilcox, 1980; Wegner and Merriam, 1979; Wilcove et al., 1986; Willis, 1974.

Description: Riparian corridor links high country to lowland desert scrub. Connects protected areas. Has high concentrations of isolated communities: hanging garden, rock crevice and canyon bottom communities. Also has an abundance of packrat middens.

Location: Paria River

Source: Van Devender and Spaulding, 1979; BLM Wilderness EIS; Knopf, 1985; Shulz, 1993; Armbruster and Lande 1993; Beier, 1993; Belovsky, 1987; Brown, 1971; Davidson et al. 1996; Diamond, 1981; Fahrig and Merriam, 1985; Frankel and Soule, 1981; Harris and Gallagher, 1989; Heaney, 1984; IUCN, 1978; Kushlan, 1979; Lomolino and Channell, 1995; Meffe and Carroll, 1994; Newmark, 1995; Noss, 1993; Patterson, 1984; Pickett and Thompson, 1978; Primack, 1993; Saunders et al., 1991; Shaffer, 1981; Soule, 1987; Soule and Wilcox, 1980; Wegner and Merriam, 1979; Wilcove et al., 1986; Willis, 1974.

Description: Fifty miles of perennial streams including the Paria River (which is a wild and scenic river inventory segment). Riparian vegetation covers 500 acres.

Location: Paria-Hackberry WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Three major floras meet in this area. Plants from the Mojave, Arizona deserts and northern Utah are all found here, with a few species from the Great Plains. The Colorado Plateau is surrounded by high mountains, isolating the flora and fauna. Unlike many ecosystems, the plant density, diversity and stature within the monument is determined more by substrate than climate. Consequently, isolation, plus the great diversity of substrates (providing a wide range of soil chemistry and physical characteristics) found within close proximity to each other has resulted in a high level of plant endemism in this area. Eleven species found in the monument are found nowhere else in the world. Of plants that occur only in Utah or on the Colorado Plateau, 125 species occur in the monument. The Canyonlands portion of the Colorado Plateau, much of which is contained in the monument, is considered the richest floristic region in the Intermountain West, and contains 50% of Utah's rare and endemic plants. 90% of these rare and endemic species are found on substrates typical of most of the monument. Of the Canyonlands area, the monument area is considered one of the most significant for endemic populations, with more than 10% of the flora being found nowhere else.

Of additional significance is that many of the plants in the monument are diploid species. This means they represent the basic genetic stock from which polyploid species in the area evolved. This makes this area of great significance to plant evolutionary biologists and provides a unique opportunity to study the evolution and speciation of plant species, as well as the structure and dynamics of plant communities, independent of climate.

Location: Entire monument

Source: Kaiparowits Power Project EIS; Axelrod, 1960; Utah Natural Heritage Program plant database; Nabhen and Wilson, 1996; Shulz, 1993; Albee et al., 1988; Welsh, 1974; Welsh et al. 1975; Hintze, 1988; Dott, 1996; Shreve, 1942; Cronquist et al., 1977; Utah Natural Heritage Program plant database

Description: The Colorado Plateau was uplifted and downcut without deformation. As a consequence, large areas of unmixed geologic parent materials are exposed, and plants must adapt to large array of highly distinct parent materials. These substrates are sharply demarcated, and often occur within a few meters of each other. This situation offers the unique opportunity to examine the role of soil physical and chemical characteristics in determining plant and animal community structure independent of climatic variables, an important ecological question. It also results in different plant community structure and dynamics than is generally observed in other ecosystems. This area contains shales, siltstones, mudstones, sandstones and limestone of differing depths, and deposited in a variety of environments (marine, freshwater and eolian). Each soil depth and depositional environment has very different chemical and physical characteristics. As a result, there is a great diversity of substrates in this area, each supporting a unique plant community.

Location: Entire monument

Source: Hintze, 1988; Nabhen and Wilson, 1996; Gross, 1987; Dott, 1996; Roberts, 1987

Description: The presence of steep elevational gradients gives the opportunity to sort out the role of temperature and precipitation in structuring plant and animal communities. Elevational gradients have traditionally been used by scientists as a way of examining factors controlling biotic community structure. Juxtaposition of diverse substrates and elevational gradients gives an unparalleled opportunity to determine the respective roles of soil chemistry, physical characteristics, elevation, rainfall and temperature in structuring biotic communities. In addition, it allows for high biodiversity in a small area.

Location: Entire monument

 Source: Kaiparowits Power Project EIS; Axelrod, 1960; Utah Natural Heritage Program plant database; Nabhen and Wilson, 1996; Shulz, 1993; Albee et al., 1988; Welsh, 1974; Welsh et al. 1975; Hintze, 1988; Dott, 1996; Shreve, 1942; Cronquist et al., 1977

Description: The Escalante Plateau is the home to approximately 300 species of amphibians, birds, mammals, and reptiles. This diverse set of wildlife species includes over 20 species of birds of prey including the bald eagle, peregrine falcon, and was the historical range of the condor. The region contains 2 of the 7 recognized centers of endemism for fishes of the western United States.

Location: Escalante Plateau

Source: Davidson et al. 1996; Tom Edwards, 1996; Behnke, R.J., and Zar, M., 1976

Description: Contains many different geologic substrates (therefore soils with different physical and chemical attributes) in a small area. The majority of endemic in Utah are found on these particular substrates; consequently, this area is expected to have a high concentration of endemics.

Location: Escalante -along boundary of Glen Canyon NRA and Capital Reef National Park

Source: Utah Natural Heritage Program plant database; Nabhen and Wilson, 1996; Shulz, 1993; Albee et al., 1988; Welsh, 1974; Welsh et al. 1975; Hintze, 1988

Description: Large expanses of fine-textured soils (Morrison, Mancos/Tropic) shales support large number of endemic plant species, fossils.

Location: Henrieville to Escalante

Source: Hintze, 1988; Shulz, 1993; BLM Wilderness EIS

Description: An exposed monocline with many soils/substrates in close juxtaposition provides tremendous biodiversity of both general and endemic flora. High salt content of stream provides habitat for salt-tolerated riparian plants. Provides a elevational gradient from ponderosa pine to desert scrub. In addition, the rocky substrate has provided refugia for many Arcto-Tertiary plants, providing a unique opportunity to examine the effects of ancient floral presence in the structuring of present-day plant communities. This area also supports a very high diversity of both general and endemic flora.

Location: The Cockscomb

Source: Hintze, 1988; Shulz, 1993; Albee et al., 1988; Axelrod, 1960; Welsh, 1978; Stevens, 1992; Dott, 1996

Description: Contains a concentration of many different geologic substrates/soils with different physical and chemical attributes. This area has a high concentration of endemics. This boundary also abuts protected areas (Glen Canyon, Capitol Reef), thereby effectively increasing the value of all three areas for biological conservation. In addition, the Waterpocket Fold has isolated two outcrops of the same parent material. These two areas now support different floras. This presents an outstanding scientific opportunity to explore processes of speciation.

Location: Far eastern boundary

Source: Hintze, 1988; Shulz, 1993; Albee et al., 1988; Axelrod, 1960; Welsh, 1978; Stevens, 1992; Dott, 1996; Armbruster and Lande, 1993; Fahrig and Merriam, 1985; Beier, 1993; Belovsky, 1987; Brown, 1971; Davidson et al, 1996; Diamond,

1981; Frankel and Soule, 1981; Harris and Gallagher, 1989; Heaney, 1984; IUCN, 1978; Kushlan, 1979; Lomolino and Channell, 1995; Meffe and Carroll, 1994; Newmark, 1995; Noss, 1993; Patterson, 1984; Pickett and Thompson, 1978; Primack, 1993; Saunders et al., 1991; Shaffer, 1981; Soule, 1987; Soule and Wilcox, 1980; Wegner and Merriam, 1979; Wilcove et al., 1986; Willis, 1974.

Description: This is an exposed monocline. Consequently, many substrates (Summerville, Morrison, Dakota, Tropic, Entrada, Navajo, Wingate and Carmel) are exposed directly next to each other, providing an opportunity for studies of ecological processes independent of climate. This monocline also has an elevational gradient, facilitating the study of effects of temperature and moisture on community dynamics. In addition, the rocky substrate has provided refugia for many Arcto-Tertiary plants, providing a unique opportunity to examine the effects of ancient floral presence in the structuring of present-day plant communities. This area also supports a very high diversity of both general and endemic flora.

Location: Straight Cliffs area

Source: Hintze, 1988; Shulz, 1993; Albee et al., 1988; Axelrod, 1960; Welsh, 1978.

Description: Diversity of plant life ranging from low desert shrub to Ponderosa Pine (less than 1 mile apart) enhances the study and observation of ecology. 3 small stands of Ponderosa pine in Alvey Wash.

Location: Death Ridge WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Contained within the monument are 3-5 spatially separated areas where the same substrates are exposed in close proximity to each other. In addition, there are 5 elevational gradients along riparian corridors. This is critical for replicated scientific work to be conducted.

Location: Entire monument

Source: Hintze, 1988; USGS Topographical Maps

Description: Riparian corridor with elevational gradient, connecting desert low lands to the high country. Vermillion, White, Pink Cliffs (Triassic, Jurassic, Cretaceous material).

Location: Johnson's Creek

Source: Hintze, 1988; USGS Topographical Maps; Beier, 1993; Noss, 1992, 1993

Description: Fifty Mile Mountain. Presence of aspen on Pleasant Grove, Steer Canyon, and Pinto Mare Canyons.

Location: Fifty Mile Mountain WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Protects lands at low elevation sites frequently rich in species diversity. The range of elevation in these areas from approximately 4500-8300 feet encompasses a wide variation in elevation and will capture the full diversity of plant and animal species in the region.

Location: Entire monument proposal including the Escalante area, Kaiparowits Plateau, and areas west to Kanab

 Source: Hintze, 1988; Utah BLM Final Wilderness EIS, 1990

Description: The monument contains an abundance of hanging gardens, tinajas, canyon bottom, dunal pockets, salt-pocket and rock crevice communities. These small, isolated populations often contain unusual, often relictual plants and animals. Hanging gardens and canyon bottom communities harbor riparian plants and their pollinators, as well as unique vertebrates (bats and small mammals) and soil fauna. Tinajas are important aquatic resources, and contain a diverse array of tadpole, fairy and clam shrimp, amphibians, algae, water beetles, other crustaceans, snails, mosquito and gnat larvae and aquatic/riparian plants. Highly saline areas are found around many seeps and streams, and consist of plants and animals adapted to highly saline conditions. Dunal pockets contain species adapted to shifting sands, while rock crevice communities consist mostly of slow-growing species that can thrive in extremely infertile sites. These communities offer a chance to examine gene flow dynamics, and to distinguish the respective role of pollen versus seeds. They offer an opportunity to study ground water flow dynamics in the absence of significant fluvial processes, and island biogeography of plants, pollinators and ground-dwelling biota. They also are highly simplified, discrete ecosystems, making them ideal for elucidating basic ecosystem processes.

 Location: Entire monument

Source: Nabhen and Wilson, 1996; Harper et al., 1994; Welsh et al., 1993; May et al., 1995; Fowler et al., 1995; Graff, 1988

Description: These canyons provide a high concentration of isolated, unique plant and invertebrate communities: hanging garden, rock crevice, and canyon bottom communities. Many relictual plant species can be found in these communities. Pack rat middens are abundant, providing paleoclimate and paleo-vegetation information.

 Location: Escalante Canyons

Source: Axelrod, 1960; BLM Wilderness EIS; Van Devender and Spauling, 1979; Fowler et al., 1995; Nabhen and Wilson, 1996

Description: Dunal pockets contribute Great Plains species to the flora. These are unique, isolated plant communities.

 Location: Cockscomb to Kaiparowits

Source: Hintze, 1988

Description: Unique, isolated communities are located throughout the monument. These include hanging gardens, tinajas, canyon bottom, dunal pocket, salt pocket and rock crevice communities. They provide great opportunities for examining evolution, gene flow, island biogeography and other ecological principles.

 Location: Entire monument

Source: Case and Cody, 1988; Diamond, 1981; Dott, 1996; Harris, 1984; Ludwig and Whitford, 1981; Fowler et al., 1995; Nabhen and Wilson, 1996; Roberts, 1987; Reice, 1994; Axelrod, 1960

Description: Biological conservation theory and literature suggests that large contiguous conservation areas increase both extent and probability of population survival, increases protection of migratory pathways, and is the most effective means of conserving aquatic and riparian communities.

 Location: Entire monument

 Source: Soule, 1987; Davidson et al., 1996; Miller, 1961; Minckley and Deacon, 1968; Armbruster and Lande, 1993; Fahrig and Merriam, 1985; Beier, 1993; Belovsky, 1987; Brown, 1971; Davidson et al. 1996; Diamond, 1981; Frankel and Soule, 1981; Harris and Gallagher, 1989; Heaney, 1984; IUCN, 1978; Kushlan, 1979; Lomolino and Channell, 1995; Meffe and Carroll, 1994; Newmark, 1995; Noss, 1993; Patterson, 1984; Pickett and Thompson, 1978; Primack, 1993; Saunders et al., 1991; Shaffer, 1981; Soule, 1987; Soule and Wilcox, 1980; Wegner and Merriam, 1979; Wilcove et al., 1986; Willis, 1974.

Description: The connection with Glen Canyon provides a larger protected area. It also provides low desert vegetation as part of the vegetational gradients. Large areas are important for maintaining the evolutionary potential of plants and animals, allowing for the exchange of genetic material among the separate populations that constitute a population.

Location: Common boundaries and riparian connections with Glen Canyon NRA, Capitol Reef NP, Box Hollow Wilderness and Paria Wilderness

Source: Hintze, 1988; Shulz, 1993; Albee et al., 1988; Axelrod, 1960; Welsh, 1978; Stevens, 1992; Dott, 1996; Armbruster and Lande, 1993; Fahrig and Merriam, 1985; Beier, 1993; Belovsky, 1987; Brown, 1971; Davidson et al. 1996; Diamond, 1981; Frankel and Soule, 1981; Harris and Gallagher, 1989; Heaney, 1984; IUCN, 1978; Kushlan, 1979; Lomolino and Channell, 1995; Meffe and Carroll, 1994; Newmark, 1995; Noss, 1993; Patterson, 1984; Pickett and Thompson, 1978; Primack, 1993; Saunders et al., 1991; Shaffer, 1981; Soule, 1987; Soule and Wilcox, 1980; Wegner and Merriam, 1979; Wilcove et al., 1986; Willis, 1974.

Description: Cryptobiotic soil crusts are critical for soil stability, nutrient availability for vascular plants and normal soil surface temperatures. These crusts are extremely fragile and easily disrupted by soil surface disturbances such as trampling or off-road vehicles. Since the soils in the monument are highly susceptible to erosion, it is important that these biocrusts be protected so they stabilize these erodible soil surfaces. In addition, these ecosystems have few nitrogen-fixing plants. Since these crusts provide nitrogen to these soils, they are a critical part of these nitrogen-limited ecosystems.

Location: Entire monument

Source: Belnap, 1994, 1995; Belnap and Harper, 1995; Belnap et al., 1994; Jefferies, 1989; Harper and Marble, 1988; Johansen, 1993; Mack and Thompson, 1978; Fleischner, 1994

Description: Disturbance of most soil surfaces in the monument area will result in soil surface temperature changes, as bio-crusts are darker than the substrates underneath them. The expected lowering of temperature with disturbance would result in cooler soil temperatures, and thus later spring plant germination and lower nutrient uptake rates. This may adversely effect desert plant growth in early spring. Surface temperatures also influence foraging and burrowing patterns for many soil invertebrates, and many effect community dynamics of these species.

Location: Entire monument

Source: Ludwig and Whitford 1981; Belnap 1995

Description: Ecosystems in this area are some of the most stable documented to date, as both large and small scale disturbances are limited spatially and temporally. Very little of this area was glaciated in the Pleistocene. Most plant communities evolved without fire or grazing by large ungulate herds, as evidenced by characteristics of the soils and the flora. Catastrophic events are minimal, with the exception of wash bottoms. Microsite disturbances are minimal as well, as most soils support very low populations of invertebrates. 1880

photos repeated in 1990 show many sites virtually unchanged, with the same tree, shrub and grass individuals present, indicating very low species turnover rates in this region relative to other ecosystems. In addition, dead tree branches can still be found in virtually the same condition as they were 100 years ago, indicating plant tissue decomposition rates are extremely low in this region. This makes this area highly unique, as most ecosystems are believed to be structured disturbance. In this region, ecological processes can be studied independent of the effects of disturbance to give us greater insight into their functioning (i.e. factors controlling exotic plant invasions, species-species interactions, etc.)

Soil physical, chemical and biological features appear to be both easily damaged (low resistance) by surface disturbance and have very slow recovery rates (low resilience) when compared to other deserts or more mesic systems. This may be a result of evolution of this ecosystem evolving in the relative absence of disturbance (Belnap 1995, 1996). Therefore, this area is important in the study of how disturbance influences community dynamics, including species-species interactions, and for understanding how to restore these fragile systems. This also means that this area is highly susceptible to damage by different land uses, including recreation and grazing.

Location: Entire monument

Source: Belnap, 1995, 1996; Belnap et al., 1994; Mack and Thompson, 1982; Fleischner, 1994; Kleiner and Harper 1972; Harper et al., 1994; Webb, 1994; Rogers, 1982; Pickett and White, 1985; Moldenke, 1995; Evans and Ehleringer, 1993; Turner et al. 1993; Iverson et al. 1981; Webb and Wilshire 1981; Larsen 1996; Bowers et al. 1994

Description: Isolation of this area has resulted in minimal human impacts. Many of the ecosystems found in this area have received little, if any, human use and the type and extent of disturbance has that has occurred is known. In addition, there are large areas unbroken by roads. This is essential to the protection and conservation of plant and animal species.

Location: Entire monument

Source: Wilcox et al 1986; Wilcox and Murphy 1985; Mader et al., 1990; Osley, et al., 1974; Rost and Bailey, 1979; Witmer and Calesta, 1985

Description: The monument lacks any areas that have been invaded to any large extent by exotic species. There are few such areas in the Intermountain West, and they can provide invaluable information in understanding the ecology and dynamics of exotic plant invasion. These areas aid scientists in understanding what makes systems resistant to such invasions, and thus help land managers predict what areas are susceptible to invasion and restore already-invaded regions.

Location: Entire monument

Source: Billings, 1994; Fleischner, 1994; Forcella and Harvey, 1983; Gross, 1987; Hunter, 1990; Loope et al., 1988; MacMahon, 1987; Pellant and Hall, 1994

Description: Six threatened or endangered candidate species are located within or near this area.

Location: Wahweap WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Contains Peregrine falcon (endangered) and 6 special status animal species and 5 special status plant species.

Location: Mud Spring WSA

 Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Habitat for Swainson's hawk, golden eagle (Sensitive) and peregrine falcon (endangered).

Location: The Blues WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Peregrine falcon and bald eagle (endangered). 8 animal and 5 plant species of special status.

Location: Paria-Hackberry and Cockscomb WSA and Wahweap WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Thirteen species of raptors are known or suspected of nesting in the WSA

Location: Burning Hills WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Relict plant community in the upper part of Dry Valley "probably possesses important scientific values"

Location: Mud Spring Canyon WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: Unique relict plant community of pinion-juniper and sagebrush-grass park vegetation accessible only by a steep trail. One of the few remaining unaltered plant communities in Utah. No Man's Mesa RNA was designated as an ACEC in 1986. Such areas are invaluable to science. They provide restoration and management goals for administration of lands. Such areas are also critical to scientists who are trying to understand the natural functioning of ecosystems. Grasslands are especially valuable, as almost all have been heavily grazed for over a century.

Location: Paria-Hackberry WSA (No Man's Mesa and Little No Man's Mesa)

Source: Utah BLM Statewide Final Wilderness EIS, 1990 and Kleiner and Harper, 1972

Description: Four Mile Bench Old Tree Area. Unique area of extremely old (1,400 years) pinon and juniper trees. Unique scientific values on over 1,000 acres.

Location: Wahweap WSA

Source: Utah BLM Statewide Final Wilderness EIS, 1990

Description: This region is at the northern end of areas that receive summer monsoonal rains, and is at the southern end of areas that depends on winter rains. This distinction is very important to the physiological functioning of plants in this moisture-limited areas, as even minor changes in temperature and/or rainfall may lead to major differences in water availability, and consequently, plant metabolic processes. Climate change is expected to alter both rainfall timing and amount, as well as temperature. This, in turn, would alter plant physiology, water use patterns and community composition in this

region, making the monument an excellent place for studying global climate change.

Location: Entire monument

Sources: Ayyad 1981; Graff 1988; Van Devender and Spaulding 1979; Wagner 1981

Description: Unlike most deserts that are primarily depositional environments, the CP is an erosional one (Welsh 1979; Nat Hist). This contributes to high endemism, as substrate material is not mixed. In addition, it makes this region highly susceptible to soil loss when surfaces are disturbed. This soil loss has a negative impact on plant and aquatic communities, as well as dam sediment loads.

Location: Entire monument

Source: Welsh, 1979; Harper et al., 1994

Description: The effects of scaling up and down are not known for many ecological processes. The multitude of variably sized, discrete watersheds found in this area offer a unique opportunity to test the effects of scaling for hydrological and biological processes. In addition, the close spacing of these watersheds offers a chance to separate the effects of area per se from other environmental factors on community structure.

Location: Entire monument

Source: Allen and Hoekstra 1987; Reice 1994; Pickett and White 1985; Rosenweig 1985

Description: Semi-arid and arid lands of the western United States are highly susceptible to desertification. The lack of natural disturbance in much of this area offers the opportunity to study the effects of different types and levels of land use and to better understand the steps leading to desertification.

Location: Entire monument

Source: Dregne, 1983

Description: This area contains few exotic plants. Having this resource gives the opportunity to better understand what factors inhibit or facilitate exotic plant invasions. Roads have been heavily implicated in facilitating exotic plant invasion, while intact Cryptobiotic soil crusts and less favorable soil chemistry may inhibit such an invasion. Invasion could fundamentally alter these communities, by altering species composition, community dynamics and fire cycles.

Location: Entire monument

Source: Monsen and Kitchen, 1994; Kelly 1996; Harper and Marble 1988; Davidson et al. 1996

Description: Quaternary resources are abundant in the monument. Pack rat middens enable reconstruction of paleoclimates and paleo-vegetation, while Pleistocene animal remains found in alcoves.

Location: Entire monument

Source: Harper et al., 1994

Description: Unlike more mesic ecosystems, there is little evidence that desert communities demonstrate traditional successional sequences. There is little or

no modification of soils or other site characteristics by previous-occurring plants. Understanding of this is important for restoration efforts. The monument offers an excellent opportunity to study this phenomenon independent of climate and disturbance factors.

Location: Entire monument

Source: Barbour, 1981; MacMahon, 1987; Shreve, 1942; Dott, 1996

Description: Peregrine falcon and Bald Eagle use these areas. Areas are habitat for 7 plant and 9 animal species considered sensitive.

Location: Death Ridge and Fifty Mile Mountain WSAs

Source: Utah Statewide Wilderness Study Report, 1991

Description: Peregrine falcon and Bald Eagle use these areas. Areas are habitat for 8 plant and 7 animal species considered sensitive.

Location: Phipps Death Hollow ISA and Steep Creek WSA

Source: Utah Statewide Wilderness Study Report, 1991

Description: Peregrine falcon and Bald Eagle use these areas. Areas are habitat for 9 plant and 7 animal species considered sensitive.

Location: North Escalante Canyon, The Gulch and Carcass Canyon WSAs

Source: Utah Statewide Wilderness Study Report, 1991

Publishing Company/Proceedings/Report Series & Year	Journal/Book/Proceeding Information	Title of Paper	Author	Notes	Publication Type	DOI Sec. Memo 1996
HRA, Inc. Conservation Archaeology	HRA Papers in Archaeology No. 1 June 2000	<i>Pithouse Excavations at the Park Wash Site (42KA4280) Grand Staircase-Escalante National Monument SouthCentral Utah Prepared for BLM Kanab Field Office</i>	Ahlstrom, Richard V. N., editor.	Archaeology	Journal Article	
		<i>Anasazi Subsistence in the St. George Basin, Southwestern Utah</i>	Allison, James R., Master of Arts Thesis, April 1990	Archaeology	Thesis and Dissertations	
		<i>Exploring Navajo-Anasazi Relationships Using Traditional (Oral) Histories</i>	Begay, Robert M., Master of Arts Thesis, May 2003	Archaeology	Thesis and Dissertations	
		<i>Residential Mobility of Paleoarchaic and Early Archaic Occupants at North Creek Shelter (42GA5863): An Analysis of Chipped Stone Artifacts</i>	Bodily, Mark L., Master of Arts Thesis, April, 2009	Archaeology	Thesis and Dissertations	
Utah Museum of Natural History	1979	<i>Petroglyphs and Pictographs of Utah, 2 vols</i>	Castleton, Kenneth	Archaeology	Book/Chapter	Yes

Johnson Books	1990	<i>Legacy on Stone: Rock Art of the Colorado Plateau and Four Corners Region</i>	Cole, Sally J	Archaeology	Book/Chapter	Yes
P-III Associates, Inc.	in Tipps, Betsy L., editor, The Burr Trail Archeological Project: Small Site Archeology on the Escalante Plateau and	<i>Pottery</i>	Coulam, Nancy J.	Archaeology	Book/Chapter	
		<i>Demographic, Climatic, and Settlement Pattern Change Among the Western Anasazi of Kane County, Utah</i>	Dohr, Susan Lintz, Master of Arts Thesis, December 1994	Archaeology	Thesis and Dissertations	
Museum of Northern Arizona		<i>Archaeological and Ethnohistorical Phase I Consultation for the Kaiparowits Power Project: Proposed Plant Sites, Impact Study Area and Proposed Transmission Line Corridors</i>	Fish, Paul	Archaeology	Conference Proceedings/ Professional Papers	Yes
U. S. Department of the Interior	Navajo Nation Archaeology Department, Archaeology Report 98- 112, Flagstaff, AZ 1990, GSENM Special	<i>Kaibabitsinungwu: An Archaeological Sample Survey of the Kaiparowits Plateau</i>	Geib, Phil R., Jim H. Collette, and Kimberly Spurr	Archaeology	Book/Chapter	
University of Utah Press	1979	<i>Archeological Survey of the Kaiparowits Plateau in The Glen Canyon Archeological Survey</i>	Gunnerson, James H	Archaeology	Book/Chapter	Yes
		<i>Fremont Site distribution in the Upper Escalante River Drainage</i>	Harris, Deborah C., Master of Arts Thesis, March 2009	Archaeology	Thesis and Dissertations	

US Department of Interior	Management Utah Office Cultural Resource Series no. 4, final report for contract 14-08-0001-	<i>Cultural Resource Evaluation in South Central Utah, 1977-78</i>	Hauck, Forrest	Archaeology	Journal Article	Yes
The Center for Desert Archaeology	Archeology Southwest, V.15, No.1, Winter, 2001	<i>Grand Canyon-Parashant</i>	Hawks, Diana	Archaeology	Journal Article	
The Center for Desert Archaeology	Archeology Southwest, V.15, No.1, Winter, 2001	<i>Vermillion Cliffs</i>	Hawks, Diana	Archaeology	Journal Article	
University of Utah Press, Salt Lake City	in Rhode, David, editor, Meetings at the Margins: Prehistoric cultural Interactions in the Intermountain West,	<i>Fremont-Anasazi Boundary Maintenance and Permeability in the Escalante Drainage</i>	Janetski, Joel C., Lane D. Richens, and Richard K. Talbot	Archaeology	Book/Chapte r	
Society for American Archaeology	American Antiquity, 77(1), p.125-159, 2012	<i>The Paleoarchaic to Early Archaic Transition on the Colorado Plateau: The Archaeology of North Creek Shelter</i>	Janetski, Joel C., Mark L. Bodily, Bradley A. Newbold, and David T. Yoder	Archaeology	Journal Article	

	Utah Historical Quarterly, 79(3): 204-223	<i>Deep Human History in Escalante Valley and Southern Utah</i>	Janetski, Joel C., Mark L. Bodily, Bradley A. Newbold, and David T. Yoder	Archaeology	Journal Article	
University of Utah Press	1981	<i>Prehistoric and Historic Settlement in the Escalante Desert</i>	Janetski, Joel, ed.	Archaeology	Book/Chapter	Yes
Project U00DN0030b, July, 2002		<i>Archaeological Survey of The Gulch, Burr Trail to the Escalante River, Garfield County, Utah</i>	Keller, Donald R.	Archaeology	Reports to GSENM	
		<i>Paleoethnobotanical Analysis of three Early Pueblo II Period Virgin anasazi Sites in Southwestern Utah: 42Ws1191, 42Ws3119, And 42Ws4145</i>	Landon, Amanda Jane, A Masters Research paper	Archaeology	Thesis and Dissertations	
Utah Geological Survey	Circular 95, 1997	<i>A Preliminary Assessment of Archeological Resources within the Grand Staircase-Escalante National Monument, Utah</i>	Madsen, David B.	Archaeology	Journal Article	
		<i>The Chemical Analysis of Archaeologically Associated Sediments: A Case from the American Southwest</i>	Martin, Steve L., Masters Thesis, January 1993	Archaeology	Thesis and Dissertations	

1997		<i>Fremont Settlement in the Upper Escalante Drainage</i>	McFadden, Doug	Archaeology	Conference Proceedings/ Professional Papers	
2002		<i>Who's Who on the Monument? Virgin, Kayenta and Fremont Relationships</i>	McFadden, Doug	Archaeology	Conference Proceedings/ Professional Papers	
The Center for Desert Archaeology	Archeology Southwest, V.15, No.1, Winter, 2001	<i>Preserving Archaeology on an Unprecedented Scale Grand Staircase-Escalante</i>	McFadden, Doug	Archaeology	Journal Article	
GSENM		<i>The Middle Trail Inventory: Evidence for Pueblo IV Presence North of the Colorado River</i>	McFadden, Douglas A.	Archaeology	Journal Article	
The Colorado Archaeological Society	Southwestern Lore, Journal of Colorado Archaeology, v.77, n.2-3, Summer/Fall, 2011	<i>The Basketmaker II Horizon: A View from the Grand Staircase</i>	McFadden, Douglas A.	Archaeology	Journal Article	
U. S. Department of the Interior	Grand Staircase-Escalante National Monument, June 1, 2003	<i>Tank Hollow Burn Inventory: Settlement Patterns and Agricultural Strategies on Fiftymile Mountain</i>	McFadden, Douglas A.	Archaeology	Book/Chapter	
U. S. Department of the Interior	Grand Staircase-Escalante National Monument, Aug., 2000	<i>Formative Chronology and Site Distribution on the Grand Staircase-Escalante National Monument</i>	McFadden, Douglas A.	Archaeology	Book/Chapter	

U. S. Department of the Interior	Utah Cultural Resource Series No. 27, Grand Staircase-Escalante National Monument Special Publication No.3, 2012	<i>Excavations at the Arroyo Site, 42Ka3976, A Pueblo II/III Virgin Anasazi Farmstead</i>	McFadden, Douglas A.	Archaeology	Book/Chapter	
Utah Statewide Archaeological Society (USAS), Utah Professional Archaeological Council (UPAC) and Utah Division	in Jones, Kevin T., Robert B. Kohl, Editors, Utah Archaeology, 1996	<i>Virgin Anasazi Settlement and Adaptation on the Grand Staircase</i>	McFadden, Douglas A.	Archaeology	Book/Chapter	
Publisher's Press	1966	<i>Hole-in-the-Rock: An Epic in the Colonization of the Great American West</i>	Miller, David	Archaeology	Book/Chapter	Yes
Grand Canyon Trust	1994	<i>Preserving Traces of the Past - Protecting the Colorado Plateau's Archaeological Heritage</i>	Moore, Rick	Archaeology	Reports to GSENM	
		<i>A study of the development of the Final Occupation of 42KA 1568: A Late Anasazi Pueblo in South Central Utah</i>	Morley, Selma E., Master of Arts Thesis, May 1993	Archaeology	Thesis and Dissertations	
Arizona Archaeological and Historical Society	KIVA: The Journal of Southwestern Anthropology and History, v.75, n.1, p.37-60, Fall, 2012	<i>Early Holocene Turkey (Melaegris Galloparo) Remains from Southern Utah, Implications for the origins of the Puebloan Domestic Turkeys</i>	Newbold, Bradley A., Joel C. Janetsky, Mark L. Bodily, and David T. Yoder	Archaeology	Journal Article	

		<i>Paleoindian Lifeways of Paleoarchaic Peoples: A Faunal Analysis of Early Occupations at North Creek Shelter, Utah</i>	Newbold, Bradley A., Master of Arts Thesis, August 2009	Archaeology	Thesis and Dissertations	
Meadow Lane Publications	1980	<i>Through the Hole in the Rock to San Juan</i>	Reay, Lee	Archaeology	Book/Chapter	Yes
		<i>A Comparative Analysis of Human Skeletal Remains from Parowan Frefmont, Virgin Anasazi, and Kayenta Anasazi Archaeological</i>	Roberts, Heidi, Master of Arts in Anthropology Thesis, December, 1991	Archaeology	Thesis and Dissertations	
	Chapter 8 THE FORMATIVE	<i>The Florescence of Agricultural Dependence, Sedentism and Social Complexity in the Grand Staircase-Escalante National Monument Region A.D. 600 to 1300</i>	Spangler, J. CPAA-Colorado Plateau Archaeological Alliance	Archaeology	Book/Chapter	
	Chapter 9 THE LATE PREHISTORIC	<i>The Terminal Formative and the Numic Expansion: A Return to Hunter-Gatherer Lifeways A.D. 1300 to 1650</i>	Spangler, J. CPAA-Colorado Plateau Archaeological Alliance	Archaeology	Book/Chapter	
Utah Museum of Natural History reports of investigations 01-2, 2001		<i>Human Landscapes and Prehistoric Paradigms: A Class 1 Overview of Cultural Resources in the Grand Staircase-Escalante National Monument</i>	Spangler, Jerry D.	Archaeology	Reports to GSENM	

		<i>A Spatial and Stylistic Analysis of Cup and Channel Petroglyphs from the Arizona Strip</i>	Terlep, Michael L. Master of Arts Thesis, May 2012	Archaeology	Thesis and Dissertations	
U. S. Department of the Interior	BLM Cultural Resource Series, No.22, 1988	<i>The Tar Sands Project: An Inventory and Predictive Model for Central and Southern Utah</i>	Tipps, Betsy L.	Archaeology	Book/Chapter	
		<i>Macrobotanical Analysis and Interpretation from 42KA1568: A Late Anasazi Pueblo in Southern Utah</i>	Valdez, Adella J., Master of Arts Thesis, August 1993	Archaeology	Thesis and Dissertations	
U. S. Department of the Interior	Utah Cultural Resource Series No. 26. Grand Staircase-Escalante National Monument Special Publication No. 2	<i>Archeology of the Dead Raven Site Preface written by Gardiner Dalley of the BLM Cedar City Field Office and Douglas McFadden of GSENM</i>	Walling, Barbara A., Richard A. Thompson, with a contribution by Kathleen Heath	Archaeology	Journal Article	
May, 2001		<i>References on the American Indian Use of Fire in Ecosystems</i>	Williams, Gerald W.	Archaeology	Reports to GSENM	
Art City Publishers	1964	<i>The Escalante Story: A History of the Town of Escalante. and Description of the Surrounding Territory, Garfield County, Utah, 1875-1964</i>	Woolsey, Nethella	Archaeology	Book/Chapter	Yes

Arizona Archaeological and Historical Society	KIVA: The Journal of Southwestern Anthropology and History, v.75, n.4, p.425-446, Summer, 2010	<i>The Onset of Small Seed Processing on the Colorado Plateau</i>	Yoder, David T., Mark L. Bodily, Sara Hill, Joel C. Janetski, and Bradley A. Newbold	Archaeology	Journal Article	
		<i>Storage and mobility among the Fremont: Changing forms through time</i>	Yoder, David T., Master of Arts Thesis, Dec., 2006	Archaeology	Thesis and Dissertations	
Wasatch Publishers	1982	<i>Canyon country rock art</i>	Barnes, F. A.	Archeology	Book/Chapter	Yes
		<i>Hopi Ethnographic Overview for Grand Staircase-Escalante National Monument</i>	Bernardini	Archeology	Report to GSENM	
Utah Museum of Natural History, Salt Lake City	1979	<i>Petroglyphs and pictographs of Utah</i>	Castleton, K.	Archeology	Book/Chapter	Yes
Utah Professional Archeological Council	Journal of Utah Archaeology, v.1988, p.5-28, 1988	<i>Fluted projectile points in Utah</i>	Copeland, J. M., and R. E. Fike	Archeology	Journal Article	

		<i>A description of fifteen inhabitants within the endolithic environment of the Navajo Sandstone</i>	Enloe, Crystal L., Masters Thesis, 2000	Archeology	Thesis and Dissertations	
Mesa Verde National Park, Cortez, Colorado, 2000		<i>Preservation Maintenance in Grand Staircase-Escalante National Monument Kane County, Utah 1999</i>	Fiero, Kathleen	Archeology	Reports to GSENM	
Museum of Northern Arizona		<i>Preliminary report for archaeological and ethnohistorical Phase 1 consultation for the Kaiparowits power project proposed</i>	Firmage, R. A.	Archeology	Reports to GSENM	
University of Utah	University of Utah Press Anthropological Papers, v.64, 1963	<i>1961 excavations, Harris Wash, Utah</i>	Fowler, D. D.	Archeology	Journal Article	
University of Utah	University of Utah Press Anthropological Papers, v.66, Glen Canyon Series no.20, 1963	<i>1961 excavations, Kaiparowits Plateau, Utah</i>	Fowler, D. D., and C. M. Aikens	Archeology	Journal Article	Yes
Mesa Verde National Park, Cortez, Colorado, 2001		<i>Preservation Maintenance on 42ka1248, 42ka1520, 42Ka2301, 42ka4865, 42Ka4870 Grand Staircase-Escalante National Monument and BLM Administered Lands</i>	Fritz, Noreen R., and Kathleen Fiero	Archeology	Reports to GSENM	

Unpublished manuscript on file with Dixie National Forest, Cedar City, 1988		<i>The Boulder archeological project</i>	Jacklin, M.	Archeology	Reports to GSENM	
University of Utah Press, Salt Lake City	1981	<i>Prehistoric and historic settlement in the Escalante Desert</i>	Janetski, J.	Archeology	Book/Chapter	
1996		<i>Virgin Anasazi Settlement and Adaptation on the Grand Staircase</i>	McFadden, Doug	Archeology	Proceedings/ Professional Papers	
2000		<i>Formative Chronology and Site Distribution on Grand Staircase-Escalante National Monument</i>	McFadden, Doug	Archeology	Conference Proceedings/ Professional Papers	
2003		<i>Tank Hollow Burn Inventory: Settlement Patterns and Agricultural Strategies on Fiftymile Mountain</i>	McFadden, Doug	Archeology	Conference Proceedings/ Professional Papers	
2004		<i>House Rock Valley Inventory: Pleasant Valley Outlet Tract</i>	McFadden, Doug	Archeology	Conference Proceedings/ Professional Papers	

Utah Bureau of Land Management, Salt Lake City	in Excavations of two Anasazi sites in southern Utah, p.153-192, BLM Cultural Resource Series No. 9, 1981	<i>Archaeological Excavations at the Kanab Site, Kane County, Utah</i>	Nickens, P. R. and K. L. Kvamme	Archeology	Book/Chapter	
		<i>Slab-lined pit features of Big Flat in Grand Staircase National Monument</i>	Schaub, Megan, Master of Arts Thesis - August 2003	Archeology	Thesis and Dissertations	
	2001	<i>Ethnographic Assessment of Kaibab Paiute Resources in Grand Staircase-Escalante National Monument</i>	Stoffle, et al	Archeology	Journal Article	
		<i>Keyenta Anasazi Settlement in the Circle Cliffs</i>	Wright, Alyssa R., Master of Arts Thesis, Dec., 2001	Archeology	Thesis and Dissertations	
	2002	<i>Who Broke the Glass on the Staircase?: Obsidian on Grand Staircase Escalante National Monument</i>	Zweifel, Matt	Archeology	Conference Proceedings/ Professional Papers	
Wiley Blackwell	Meyer, A., editor, Encountering the environment (1971)	<i>Escalante Canyon</i>	Abbey, E.	Ecology	Book/Chapter	Yes
Utah Museum of Natural History	Utah Museum of Natural History Occasional Publications, v.7, 1988	<i>Atlas of the vascular plants of Utah</i>	Albee, B. J., L. M. Shultz, and S. Goodrich	Ecology	Journal Article	

		<i>The mammals of the Grand Staircase-Escalante National Monument, Utah: Study 1: a biotic survey and habitat assessment of small mammals - Study 2: functional factors of habitat selection and the population dynamics of translocated desert bighorn sheep (ovis cnandensis nelsoni)</i>	Alston, Jackee L., Masters Thesis, 2003	Ecology	Thesis and Dissertations	
USDA/USFS/BLM/NPS	1991	<i>Utah threatened, endangered and sensitive plant field guide</i>	Atwood, K, J Holland, R Bolander, B Franklin. DE House, L Armstrong , K Thome and L England	Ecology	Journal Article	Yes
The University of Chicago Press	in Tax, S., editor, Evolution after Darwin, the evolution of life, vol.1, p.227-305, 1960	<i>The evolution of flowering plants</i>	Axelrod, D. I.	Ecology	Book/Chapter	
		<i>Inhabitation of a wind-abraded environment by denitrifying prokaryotes and fungi</i>	Battaglia, Louis, Master of Science, 2001	Ecology	Thesis and Dissertations	
Ecology and Management of Annual Rangelands, Ogden, UT, 1994	USDA-INT-GTR-313, Monsen, S. B. and S. G. Kitchen, eds., p.179-185	<i>Potential role of cyanobacterial-lichen soil crusts</i>	Belnap, J.	Ecology	Conference Proceedings/ Professional Papers	
State of Utah Dept of Natural Resources	Technical Publication No. 81, 86 pages plus two plates, 1986	<i>Ground-water conditions in the Kaiporowits Plateau area, Utah and Arizona, with emphasis on the Navajo sandstone</i>	Blanchard, P. J.	Ecology	Journal Article	
Wiley Blackwell	Journal of Vegetation Science, v. 6 (1995) p. 551-564.	<i>Longevity, recruitment, and mortality of desert plants in Grand Canyon, Arizona, U.S.</i>	Bowers, J.E., Webb, R.H., and Rondeau, R.A.	Ecology	Journal Article	Yes

University of Arizona Press, Tucson	in vanRiper, Charles III, and Mark K. Sagge, editors, The Colorado Plateau III, Integrating Research and Resources Management for Effective Conservation, 2008	<i>Natural Variation in Diversity and Invasion Patterns of the Grand Staircase-Escalante National Monument, Utah</i>	Crall, Aycia W., Thomas J. Stohlgren, Paul Evangelista, and Deb Guenther	Ecology	Book/Chapter	
Brigham Young University	Great Basin Naturalist. vol. 56, (1996) pp. 95-118	<i>Selecting wilderness areas to conserve Utah's biological diversity</i>	Davidson DE, WD Newmark. JW Sites, DK Shiozawa, EA Rickart, KT Harper, and RB Keiter	Ecology	Journal Article	Yes
The Chicago University Press, Chicago	in Nitecki, M. H., Editor, Extinctions, p.191-246, 1981	<i>"Normal" extinctions of isolated populations</i>	Diamond, J. M.	Ecology	Book/Chapter	
University of Arizona Press, Tucson	in vanRiper, Charles III, and Mark K. Sagge, editors, The Colorado Plateau III, Integrating Research and Resources Management for Effective Conservation, 2008	<i>Conservation Status of the Colorado Plateau Using Southwest Regional Gap Analysis Stewardship Data</i>	Ernst, Andrea E., and Julie S. Prior-Magce	Ecology	Book/Chapter	
Blackwell Publishing	Diversity and Distributions, 2008 Biodiversity Research	<i>Modelling invasion for a habitat generalist and a specialist plant species</i>	Evangelista, Paul H., Sunil Kumar, Thomas J. Stohlgren, Catherine S. Jarnevich, Alycia W. Crall, John B. Norman III, David T. Barnett	Ecology	Journal Article	
GSENM	in Grand Staircase-Escalante National Monument, 2002	<i>Annotated checklist of the flora of Grand Staircase-Escalante National Monument</i>	Fertig, W., L. Fertig, H. Beck, S. Bartlett, and L. Pfennifer	Ecology	Book/Chapter	

Museum of Northern Arizona	in vanRiper, Charles III, and Kenneth L. Cole, editors, The Colorado Plateau: Shaping Conservation through science and management, 2010	<i>Finding gaps in the protected area network in the Colorado Plateau: A case study using vascular plant taxa in Utah</i>	Fertig, Walter	Ecology	Book/Chapter	
		<i>Effects of Managed Grazing on Vegetation Structure and Range Condition in Grand Staircase-Escalante National Monument, UT: Combining Imaging Spectroscopy and Field Studies</i>	Harris, Albert Thomas, III, Masters Thesis, 2002	Ecology	Thesis and Dissertations	
Southwestern Association of Naturalists	The Southwestern Naturalist, v.24, p.331-346, 1979	<i>Riparian tree species distribution and succession along the lower Escalante River, Utah</i>	Irvine, J. R., and N. E. West	Ecology	Journal Article	
		<i>The vegetation, soil, and cryptogamic crusts of Blackbrush communities in the Kaiparowits Basin</i>	Jeffries, D., Ph.D. Dissertation, 1989	Ecology	Thesis and Dissertations	
USDA	in M. K. Young, ed. Conservation assessment for inland cutthroat trout. Technical Report RM-GTR-256, USDA Forest Service, 1995) pp. 28-35	<i>Bonneville cutthroat trout</i>	Kershner, J. L.	Ecology	Journal Article	Yes
		<i>Degradation of Human Feces and Fecal Bacterial Movement from Catholes in Southwest Canyon Country</i>	Kimmel, Nadia V., Masters Thesis, 2000	Ecology	Thesis and Dissertations	
Horizon Press, UK	in McClean, J. C., and A. W. Decho, editors, Molecular Ecology of Biofilms, p.105-119., 2002	<i>Interactions of endolityic microbial communities with the physical environment</i>	Kurtz, Jr., H. D.	Ecology	Book/Chapter	

University of Arizona Press, Tucson	in vanRiper, Charles III, and Mark K. Sagge, editors, The Colorado Plateau III, Integrating Research and Resources Management for Effective Conservation, 2008	<i>A Gap Analysis of Ecological Systems of the Colorado Plateau Ecoregion Using Southwest Regional Gap Analysis Land Cover</i>	Langs, Lisa A., Kathryn A. Thomas, John H. Lowry, and Keith A. Schulz	Ecology	Book/Chapter	
Department of Systematic Biology, National Museum of Natural History, Smithsonian Institution, Washington, D.C., 2001		<i>Checklist of Shore Flies (Diptera: Ephydriidae) From Grand Staircase-Escalante National Monument</i>	Mathis, W., and D. Mathis	Ecology	Reports to GSENM	
		<i>Understanding the effects of invasive riparian vegetation on stream macroinvertebrate communities on the Colorado Plateau</i>	Moline, Angela B., 2006	Ecology	Thesis and Dissertations	
USDA	Salt Lake City, UT, USA: US Department of Agriculture, Natural Resources conservation service, 577P., 2005	<i>Soil survey of Grand Staircase-Escalante National Monument area, parts of Kane and Garfield counties, Utah</i>	NRCS (USDA Natural Resources Conservation Service)	Ecology	Book/Chapter	
Utah Division of Wildlife Resources	Natural Heritage Program, Salt Lake City, Utah, 2003	<i>Amphibians and Reptiles of the Grand Staircase-Escalante National Monument: Distribution, Abundance, and Taxonomy</i>	Oliver, G. V.	Ecology	Journal Article	
Brigham Young University		<i>Modeling Studies of Small Mammal Trapping. Phenology. and Plant Succession in the Kaiparowits Region, Kane Countv. Utah</i>	Raines, James. Ph.D. Dissertation. 1976	Ecology	Thesis/Dissertation	Yes
Northern Arizona University	Scott E Sink Ecological Restoration Institute, 2003	<i>Photographic Guide to Pinyon and Juniper Tree Maturity Classes</i>	Sink, Scott E.	Ecology	Journal Article	

University of Arizona Press, Tucson	2004	<i>The Colorado Plateau: Cultural, Biological, and Physical Research</i>	Spurr, Geib, and Collette	Ecology	Journal Article	
UI S. Dept. of Agriculture Natural Resources Conservation Service, GSENM, USDA-NRCS unpublished draft report, 2004		<i>Soil survey of Utah, parts of Garfield and Kane Counties</i>	Sutcliff, K.	Ecology	Reports to GSENM	
Utah State University, final report for contract CX1200-6-B076	1988	<i>Vegetation and Relict Communities of Glen Canyon National Recreation Area</i>	Tuhy, Joel and MacMahon, James	Ecology	Report to GSENM	Yes
Final Report, 1980		<i>Kaiparowits coal developmnt and transportation study</i>	U. S. Dept. of the Interior and Bureau of Land Management	Ecology	Reports to GSENM	
		<i>The need for a multivariate approach to understand patterns of species richness and invasion: a case study in Grand Staircase-Escalante National Monument, Utah</i>	Waters, M. Alycia, Master of Science Thesis, 2003	Ecology	Thesis and Dissertations	
Taylor and Francis	in Larry Mayer, Larry, and D.B. Nash, editors, Catastrophic flooding: Boston, Allen and Unwin, p.247-265, 1987	<i>Occurrence and geomorphic effects of streamflow and debris flow floods in southern Utah and northern Arizona</i>	Webb, R. H.	Ecology	Book/Chapter	
Springer-Verlag	1981	<i>Environmental effects of off-road vehicles: impacts and management in arid regions</i>	Webb, RH and HG Wilshire	Ecology	Book/Chapter	Yes

		<i>Late Holocene Flooding on the Escalante River, South-Central Utah</i>	Webb, Robert Howard, Ph.D. Dissertation, 1985, research hydrologist with USGS	Ecology	Thesis and Dissertations	
Northern Arizona University	in Gaud, W., editor, The beginning of the age of dinosaurs, 1974	<i>Supplemental environmental studies of the Kaiparowits generating station</i>		Ecology	Book/Chapter	
The International Association of Chinese Professionals in Geographic Information Science	Geographic Information Sciences, Vol.10, No.1, June, 2004	<i>Iterative Model Development for Natural Resources Managers: A Case Example in Utah's Grand Staircase-Escalante National Monument</i>	Alley, Nathanial, Thomas J. Stohlgren, Paul Evangelista, Debra Guenther	Ecology	Journal Article	
Brigham Young University	Great Basin Naturalist, 40, 303-350	<i>Terrestrial Vertebrate Fauna of the Kaiparowits Basin</i>	Atwood, N. Duane, C. I. Pritchett, R. D. Porter, B. W. Wood	Ecology	Journal Article	
June 2006		<i>Linking the Marine & Terrestrial Records: Using Fossil Plant Cuticle to Test pCO₂ Drawdown Hypothesis For the Cenomanian-Turonian Marine Anoxic Event (94Ma), SW Utah</i>	Barclay, Richard PhD Candidate, Geological Sciences, Northwestern University	Ecology	Reports to GSENM	
Allen Press Publishing Services	Rangeland Ecology and Management 62(6), Nov. 2009 p.531-539	<i>Influence of Livestock Grazing and Climate on Pinyon Pine (Pinus edulis) Dynamics</i>	Barger, Nichole N., Henry D. Adams, Connie Woodhouse, Jason C. Neff, and Gregory P. Asner	Ecology	Journal Article	
Elsevier	Applied Soil Ecology 22 (2003) 67-77	<i>Soil characteristics and plant exotic species invasions in the Grand Staircase-Escalante National Monument, Utah, USA</i>	Bashkin, Michael, Thomas J. Stohlgren, Yuka Otsuki, Michelle Lee, Paul Evangelista, and Jayne Belnap	Ecology	Journal Article	

Brigham Young University		<i>Insects and other arthropods of the Grand Staircase-Escalante National Monument</i>	Baumann, Richard W., and C. Riley Nelson, Dept. of Zoology, BYU	Ecology	Reports to GSENM	
Report from research, April, 2010		(<i>Bird Monitoring</i>)	Beason, Jason - Special Monitoring Projects Coordinator, Rocky Mountain Bird Observatory, 970-527-4625	Ecology	Reports to GSENM	
Brigham Young University	Great Basin Naturalist 53:40-47, 1993	<i>Soil microstructure in soils of the Colorado Plateau: the role of the cyanobacteria microcoleus vaginatus</i>	Belnap, J., and J. S. Gardner	Ecology	Journal Article	
Springer www.springer.com	Microbial Ecology, 43:13-25, 2002	<i>Temporal Variation in Community Composition, Pigmentation, and Fv/Fm of Desert Cyanobacterial Soil Crusts</i>	Bowker, M. A., S. C. Reed, J. Belnap, S. L. Phillips	Ecology	Journal Article	
Society for Ecological Restoration International 2007	Restoration Ecology 15(1):13-23	<i>Biological Soil Crust Rehabilitation in Theory and Practice: An Underexploited Opportunity</i>	Bowker, Matthew A.	Ecology	Journal Article	
Opulus Press Uppsala	Journal of Vegetation Science doi: 10.3170/2008-8-18454	<i>A Simple classification of soil types as habitats of biological soil crusts on the Colorado Plateau, USA</i>	Bowker, Matthew A., and Jayne Belnap	Ecology	Journal Article	
Allen Press Publishing Services	Rangeland Ecology and Management Rangeland Ecol Manage 59: 519-529 September 2006	<i>Spatial Modeling of Biological Soil Crusts to Support Rangeland Assessment and Monitoring</i>	Bowker, Matthew A., Jayne Belnap, and Mark E. Miller	Ecology	Journal Article	

Elsevier	Soil Biology and Biochemistry, p.1-8, (2008)	<i>Revisiting classic water erosion models in drylands: The strong impact of biological soil crusts</i>	Bowker, Matthew A., Jayne Belnap, V. Bala Chaudhary, and Nancy C. Johnson	Ecology	Journal Article	
2001 Annual Report		<i>Predicting the Occurrence and Species Composition of Biological Soil Crusts in the Grand Staircase-Escalante Monument</i>	Bowker, Matthew A., and Jayne Belnap	Ecology	Reports to GSENM	
Elsevier	Soil Biology and Biochemistry, 42, 405-417, 2010	<i>Biological crusts as a model system for examining the biodiversity-ecosystem function relationship in soils</i>	Bowker, Matthew A., Fernando T. Maestre, Cristina Escolar	Ecology	Journal Article	
Blackwell Publishing	Conservation Biology 2008 22(6):1533-1543	<i>Prioritizing conservation effort through the use of biological soil crusts as ecosystem function indicators in an arid region</i>	Bowker, Matthew A., Mark E. Miller, Jayne Belnap, Thomas D. Sisk, and Nancy C. Johnson	Ecology	Journal Article	
Allen Press Publishing Services	Rangeland Ecology and Management 62(6), Nov. 2009 p.491-499	<i>Managing Complex Problems in Rangeland Ecosystems</i>	Boyd, Chad S., and Tony J. Svejcar	Ecology	Journal Article	
University of Arizona Press, Tucson	and Mark K. Sagge, editors, The Colorado Plateau III, Integrating Research and Resources	<i>Vertebrate Species of the Colorado Plateau: Assessment From the Southwest Regional Gap Analysis Project</i>	Boykin, Kenneth G., Charles Drost, and J. Judson Wynne	Ecology	Book/Chapter	
		<i>An examination of the DNA content, taxonomy and phylogeny of Penstemon (Plantaginaceae)</i>	Broderick, Shaun R. Master of Science Thesis, April, 2010	Ecology	Thesis and Dissertations	

NRC Research Press published on the website at genome.nrc.ca on 2/4/11	Genome 54: 160-173, 2011	<i>A Survey of Penstemon's genome size</i>	Broderick, Shaun R., Mikel R. Stevens, Brad Geary, Stephen L. Love, Eric N. Jellen, Rhyan B. Dockter, Shawna L. Daley, Dale T. Lindgren	Ecology	Journal Article	
BLM-UT Agreement Number J910A70033		<i>The Grand Staircase-Escalante National Monument Soil Survey</i>	Broderson, William D. (State Soil Scientist)	Ecology	Reports to GSENM	
	Wildlife Society Bulletin, v.34(3), p.637-641, October, 2006	<i>The Efficacy of Remote Sensing in Quantifying Natural Water Sources in the Grand Staircase-Escalante National Monument</i>	Bronson, Adam R., Terry A. Messmer, Todd A. Black	Ecology	Journal Article	
U.S. Dept. of the Interior, Bureau of Reclamation, October, 2002		<i>Willow Flycatcher Habitat Suitability Model - Phase I Grand Staircase- Escalante National Monument, Utah</i>	Callahan, Deb, and Larry White	Ecology	Reports to GSENM	
2010 Annual Report UT- 030-10-04-P		<i>Test the hypothesis that habitat near or at ecological potential will show significantly reduced impacts from</i>	Catlin, Jim	Ecology	Reports to GSENM	
UT-6388, Second year report, Summer 2003 to Fall 2005		<i>A quantitative test of the rangeland health soil stability indicators: do they reflect impacts to mycorrhizal fungal inoculum and plant establishment?</i>	Chaudhary, V. B., T. O'Dell, and A. Redman	Ecology	Reports to GSENM	

Ecological Society of America	Ecological Applications 19(1), 2009, P.110-122	<i>Untangling the biological contributions to soil stability in semiarid shrublands</i>	Chaudhary, V. Bala, Matthew A. Bowker, Thomas E. O'Dell, James B. Grace, Andrea E. Redman, Matthias C. Rillig, Nancy C. Johnson	Ecology	Journal Article	
		<i>Functions of Arbuscular Mycorrhizal Fungi at Ecosystem and Community Scales in Semi-Arid Environments</i>	Chaudhary, V. Bala, Master of Science Thesis, Dec. 2006	Ecology	Thesis and Dissertations	
Brigham Young University	Western North American Naturalist 66(1), 2006, pp 92-105	<i>Evaluating Plant Invasions from Both Habitat and Species Perspectives</i>	Chong, Geneva W., Yuka Otsuki, Thomas J. Stohlgren, Debra Guenther, Paul Evangelista, Cynthia Villa, and Alycia	Ecology	Journal Article	
Blackwell Publishing	Diversity and Distributions DOI: 10.1111/j.1366-9516.2005.00228.x	<i>Evaluating dominance as a component of non-native species invasions</i>	Crall, Alycia W., Gregory J. Newman, Thomas J. Stohlgren, Catherine S. Jarnevich, Paul Evangelista, and Deb Guenther	Ecology	Journal Article	
Natural Areas Association	Natural Areas Journal 30(2):191-201, 2010	<i>Avian Community Responses to Mechanical Thinning of a Pinyon-Juniper Woodland: Specialist Sensitivity to Tree Reduction</i>	Crow, Claire, and Charles van Riper III	Ecology	Journal Article	
USGS	Open-File Report 2011-1109, 32p., 2011	<i>Avian Community Responses to Juniper Woodland Structure and Thinning Treatments on the Colorado Plateau</i>	Crow, Claire, and Charles van Riper III	Ecology	Journal Article	

		<i>Paleoecology of Grand Staircase-Escalante National Monument: Human Landscape Impacts and Management Implications on the Colorado Plateau</i>	D'Andrea, Robert M., Master of Science in Environmental Sciences and Policy Thesis, December 2015	Ecology	Thesis and Dissertations	
Ecological Society of America	Ecological Applications, 12(5), p.1391-1405, 2002	<i>Treatment effects on performance of N-fixing lichens in disturbed soil crusts of the Colorado Plateau</i>	Davidson, Diane W., Matthew Bowker, Dylan George, Susan L. Phillips, and Jayne Belnap	Ecology	Journal Article	
Utah Division of Wildlife Resources, November, 2000		<i>Summary of Southwestern Willow Flycatcher Investigations in and Around Grand Staircase-Escalante National Monument and Along Kanab Creek, Utah in 2000</i>	Day, Keith S., and Anjeanette Porter	Ecology	Reports to GSENM	
Utah Division of Wildlife Resources, November, 1999		<i>1998 Baseline Inventory of Bat Species in Grand Staircase-Escalante National Monument, Utah</i>	Day, Keith S., and L. Cordell Paterson	Ecology	Reports to GSENM	
Geological Society of America	GSA Abstracts with Programs, Cordilleran Section, 10(3):102, 1978	<i>Non-marine flora and fauna from the Kaiparowits Formation (Upper Cretaceous) of the Paria River Amphitheater, southwestern Utah</i>	DeCourten, F. L.	Ecology	Conference Proceedings/ Professional Papers	
Summary Report, 1997 - February, 1998		<i>Grand Staircase-Escalante National Monument Noxious Weed survey</i>	Ecosphere Environmental Services, Farmington, New Mexico	Ecology	Reports to GSENM	

Elsevier	Quaternary Research, v.38, p.196-204, 1992	<i>Accuracy of post-bomb ^{137}Cs and ^{14}C in dating fluvial deposits</i>	Ely, L. L., R. H. Webb, and Y. Enzel	Ecology	Journal Article	
American Geophysical Union and the Geochemical Society	Water Resources Research, v.29, P.2287-2297, 1993	<i>Paleoflood evidence for a natural upper bound to flood magnitudes in the Colorado River basin</i>	Enzel, Yehouda, L. L. Ely, P. K. House, V .R. Baker, and R. H. Webb	Ecology	Journal Article	
Literature Review, June, 1997		<i>Perspectives Concerning Juniper Range Expansion</i>	Estes, Kristopher S., and Kathryn A. Thomas	Ecology	Reports to GSENM	
University of Arizona Press, Tucson	in vanRiper, Charles III, and Kenneth L. Cole, editors, The Colorado Plateau IV, Cultural, Biological and Physical Research, p.153-162, 2004	<i>Fire Effects on Cryptobiotic Soil Crusts in the Grand Staircase-Escalante National Monument, Utah</i>	Evangelista, Paul, Debra Guenther, Thomas J. Stohlgren and S. Steward	Ecology	Book/Chapter	
Brigham Young University	Western North American Naturalist v.64, n.3, p.293-305, 2004	<i>Vegetation Response to fire and postburn seeding treatments in juniper woodlands of the Grand Staircase-Escalante National Monument, Utah</i>	Evangelista, Paul, Thomas J. Stohlgren, Debra Guenther, Sean Steward	Ecology	Journal Article	
Springer www.springer.com	Oecologia, v.94, p.314-317, 1993	<i>A break in the nitrogen cycle in arid lands? Evidence from ^{15}N soils</i>	Evans, R. D., and J. R. Ehleringer	Ecology	Journal Article	
Springer www.springer.com	Biogeochemistry 78:247-265, 2006	<i>Soil respiration in the cold desert environment of the Colorado Plateau (USA): Abiotic regulators and thresholds</i>	Fernandez, D. P., J. C. Neff, J. Belnap, and R. L. Reynolds	Ecology	Journal Article	
Moenave Botanical Consulting, May, 2005		<i>Annotated Checklist of the Flora of Grand Staircase-Escalante National Monument</i>	Fertig, Walter	Ecology	Reports to GSENM	

Summary of the 2007 and 2008 Bio-Blitzes, Fertig, Walt, ed.		<i>The Biota of the Deer Creek Watershed, Garfield County, Utah: Summary of the 2007-2008 Bio-blitz</i>	Fertig, Walter, John Spence, Larry Stevens, Jerri Ledbetter, Neil Perry, and Rhett Boswell	Ecology	Reports to GSENM	
Elsevier	Journal of Arid Environments, 2009 V.73, p.937-948	<i>Using packrat middens to assess grazing effects on vegetation change (2009)</i>	Fisher, J., K. L. Cole, R. S. Anderson	Ecology	Journal Article	
U. S. Department of the Interior	USGS, August, 2006	<i>Using packrat middens to assess how grazing influences vegetation change in Glen Canyon National Recreation Area, Utah, 2006</i>	Fisher, Jessica, Kenneth L. Cole, R. Scott Anderson	Ecology	Journal Article	
Brigham Young University	Reprinted from the Monographs of the Western North American Naturalist, V.1, 2002, p.1-64	<i>Mammals of the Grand Staircase-Escalante National Monument A Literature and Museum Survey</i>	Flinders, Jerran T., Duke S. Rogers, Jackee L. Webber-Alston, Harry A. Barber	Ecology	Journal Article	
Natural Areas Association	Natural Areas Journal 28: 26-36, 2008	<i>Fire History of Piñon-juniper Woodlands on Navajo Point, Glen Canyon National Recreation Area</i>	Floyd, M. Lisa, William H. Romme, David D. Hanna, Mark Winterowd, Dustin Hanna, and John Spence	Ecology	Journal Article	
Geological Society of America	GSA Bulletin, v.103, P.1405-1415, 1991	<i>Relation of sediment load and flood-plain formation to climatic variability, Paria River drainage basin, Utah and Arizona</i>	Graf, Julia B., R. H. Webb, and Richard Hereford	Ecology	Journal Article	
Grand Canyon Trust	2014-2015	<i>Grand Staircase-Escalante National Monument Biocrust Survey (and) Biocrust Database</i>	Grand Canyon Trust Personnel	Ecology	Journal Article	

University of Arizona Press, Tucson	in vanRiper, Charles III, and Kenneth L. Cole, editors, The Colorado Plateau Cultural, Biological and Physical Research, p.121-128, 2004	<i>A Comparison of a Near-Relic Site and a Grazed Site in a Pinyon- Juniper Community in the Grand Staircase-Escalante National Monument, Utah</i>	Guenther, Debra, Thomas J. Stohlgren, and Paul Evangelista	Ecology	Book/Chapter	
Academic Press	Journal of Arid Environments (2001) 47: 347-357 doi: 10.1006/jare.2000.0713	<i>The influence of biological soil crusts on mineral uptake by associated vascular plants</i>	Harper, Kimball T., and Jayne Belnap	Ecology	Journal Article	
Springer www.springer.com	Ecosystems (2003) 6: 368- 383 DOI: 10.1007/s10021- 003-0168-2	<i>Changes in Vegetation Structure after Long-term Grazing in Pinyon- Juniper Ecosystems: integrating Imaging Spectroscopy and Field Studies</i>	Harris, A. Thomas, Gregory P. Asner, and Mark E. Miller	Ecology	Journal Article	
Elsevier	Journal of Arid Environments (2003) 391- 404	<i>Grazing gradient detection with airborne imaging spectroscopy on a semi-arid rangeland</i>	Harris, A. Thomas, and Gregory P. Asner	Ecology	Journal Article	
Brigham Young University	Western North American Naturalist, v.61, n.2, p.129- 138, 2001	<i>Occurrence of native Colorado River cutthroat trout (Oncorhynchus clarki pleuriticus) in the Escalante River drainage, Utah</i>	Hepworth, Dale K., Michael J. Ottenbacher, and Charles Chamberlain	Ecology	Journal Article	
USGS http://pubs.usgs.gov/imap/i 2771/	Geologic Investigations Series Map I-2771, scale 1:5000, 2004	<i>Map showing Quaternary geology and geomorphology of the Lonely Dell Reach of the Paria River, Lees Ferry, Arizona, with accompanying pamphlet</i>	Hereford, R.	Ecology	Journal Article	
USGS http://pubs.usgs.gov/fs/2002 /fs119-02/	U.S.Geological Survey Fact Sheet 119-02, 4 p., 2002	<i>Precipitation history of the Colorado Plateau region, 1900-2000</i>	Hereford, R., R. H. Webb, and S. Graham	Ecology	Journal Article	

Geological Society of America	GSA Bulletin; Dec. 2002; v.114; no. 12; P.1550-1563	<i>Valley-fill alluviation during the Little Ice Age (ca. A.E. 1400-1880), Paria River basin and southern Colorado Plateau, United States</i>	Hereford, Richard	Ecology	Journal Article	
Geological Society of America	Geology, v.15, p.954-957, Oct., 1987	<i>Sediment-yield history of a small basin in Southern Utah, 1937-1976: Implications for land management and geomorphology</i>	Hereford, Richard	Ecology	Journal Article	
University of Washington	0033-5894/86, 1986	<i>Modern Alluvial History of the Paria River Drainage Basin, Southern Utah</i>	Hereford, Richard	Ecology	Journal Article	
Kluwer Academic Publishers	Climatic Change, V.22, P.239-256	<i>Historic variation in warm-season rainfall on the Colorado Plateau U.S.A.</i>	Hereford, Richard, and R. H. Webb	Ecology	Journal Article	
GSENM	January, 2011	<i>Indian Ricegrass and Needle and Thread Grass genetic diversity assessment in Grand Staircase Escalante National Monument</i>	Hughes, Amber	Ecology	Reports to GSENM	
Springer www.springer.com	Environmental Management Vol. 25, No. 1, p. 23-35	<i>A General Framework for Prioritizing Land Units for Ecological Protection and Restoration</i>	Hyman, Jeffrey B., and Scott G. Leibowitz	Ecology	Journal Article	
Annual Report, January, 2007		<i>Differentiating Paleoclimate and Paleoenvironments in the Morrison Formation Using Detailed Paleopedological Analyses</i>	Jennings, Debra	Ecology	Reports to GSENM	

American Institute of Biological Sciences	BioScience , November 206, V.56, No.11	<i>From Lilliput to Brobdingnag: Extending Models of Mycorrhizal Function across Scales</i>	Johnson, Nancy Collins, Jason D. Hoeksema, Jamesever, V. Bala Chaudhary, Catherine Gehring, John Klironomos, Roger Koide, R. Michael Miller, John Moore, Peter Moutoglis, Mark Schwartz, Suzanne Simard, William Swenson, James Umbanhowar, Gail Wilson, Catherine Zabinski	Ecology	Journal Article	
Blackwell Publishing	Ecology Letters, 2003, 6: 532-540	<i>Interactions among mycorrhizae, atmospheric CO2 and soil N impact plant community composition</i>	Johnson, Nancy Collins, Julie Wolf, George W. Koch	Ecology	Journal Article	
Geological Society of America	Geology, v.40, n.9, p.839-842, September, 2012	<i>Shallow-water methane-seep faunas in the Cenomanian Western Interior Seaway: No evidence for onshore-offshore adaptations to deep-sea vents</i>	Kiel, Steffen, Frank Wiese, and Alan L. Titus	Ecology	Journal Article	
September, 2011		<i>A Guide to the Identification and Interpretation of the Plants of Grand Staircase-Escalante National Monument</i>	Malm, Margaret	Ecology	Reports to GSENM	

		<i>Late Cretaceous Microherpetofaunas of the Kaiparowits Plateau, Utah</i>	McCord, Robert Dudridge, Ph.D. Dissertation, 1997, (UMI#9814409)	Ecology	Thesis and Dissertations	
Brigham Young University	Western North American Naturalist v.63, n.3, p.307- 315, 2002	<i>Kanab ambersnail and other terrestrial snails in south central Utah</i>	Meretsky, Vicky J., Eric G. North and Lawrence E. Stevens	Ecology	Journal Article	
USDA Bee Biology and Systematics Laboratory, Final Report, 2000-2003		<i>Grand Staircase Escalante National Monument Bee Surveys</i>	Messinger, O., and T. Griswold	Ecology	Reports to GSENM	
		<i>A Survey of the Bees of Grand Staircase-Escalante National Monument, Souther Utah: Incidence, Abundance, and Community Dynamics</i>	Messinger, Olivia, Master of Science in Biology Thesis, 2006	Ecology	Thesis and Dissertations	
Moab, Utah, 2007	11th Biennial Soil Ecology Society Meeting	<i>Perspectives on management- oriented soil research and challenges at the science-management interface</i>	Miller, M. E., and K. Cannon	Ecology	Conference Proceedings/ Professional Papers	
Allen Press Publishing Services	Rangeland Ecology and Management, Vol. 61; No. 3; p.249-262; May 2003	<i>Broad-Scale Assessment of Rangeland Health Grand Staircase- Escalante National Monument, USA</i>	Miller, Mark E.	Ecology	Journal Article	
Final Report 2005		<i>Evaluations of Measures and Measurement Techniques to Support Long-Term Monitoring of Terrestrial</i>	Miller, Mark E.	Ecology	Reports to GSENM	
U. S. Department of the Interior	USGS Scientific Investigations Report 2005- 5197	<i>The Structure and Functioning of Dryland Ecosystems - Conceptual Models to Inform Long-Term Ecological Monitoring</i>	Miller, Mark E.	Ecology	Book/Chapte r	

USGS	Open-File Report 2007-1050	<i>Ecological Investigations of the Federally Endangered Shivwits Milk-Vetch (Astragalus ampullarioides) - 2006 Annual Report</i>	Miller, Mark E., Rebecca K. Mann, Harland Goldstein, James D. Yount	Ecology	Journal Article	
Society for Range Management, www.rangelands.org,	Rangeland Ecology & Management, 59(2), March 2006, p.216-219	<i>Successful Adaptive Management - The Integration of Research and Management</i>	Morghan, Kimberly J. Reeve, Roger L. Sheley, and Tony J. Svejcar	Ecology	Journal Article	
Ecological Society of America	Frontiers in Ecology and the Environment 2006; 4(1): 11-17	<i>A tamarisk habitat suitability map for the continental United States</i>	Morisette, Jeffrey T., Catherine S. Jarnevich, Asad Ullah, Weijie Cai, Jeffrey A. Pedelty, James E. Gentle, Thomas J. Stohlgren, and John L. Schnase	Ecology	Journal Article	
Ecological Society of America	Ecological Applications 19(6), 2009, p.1405-1416	<i>Soil carbon storage responses to expanding pinyon-juniper populations in southern Utah</i>	Neff, J. C., N. N. Barger, W. T. Baisden, D. P. Fernandez, G. P. Asner	Ecology	Journal Article	
2000 and 2001	(Poster)	<i>Arthropods of the Grand Staircase-Escalante National Monument: Survey methods, effort curves, and dispersal tendencies</i>	Nelson, C. R., J. C. Shields, E. Ahlstrom, H. Barber, and R. W. Baumann	Ecology	Conference Proceedings/ Professional Papers	
2001		<i>Invertebrates, Arthropods (Primarily Insects) of the Grand Staircase-Escalante National Monument</i>	Nelson, C. Riley, and Richard Baumann	Ecology	Reports to GSENM	

John Wiley and Sons	in Baker, V. R., R. C. Kochel, P. C. Patton, editors, Flood geomorphology p.393-402	<i>Hydraulic modeling for paleoflood analysis</i>	O'Connor, J. E., and R. H. Webb,	Ecology	Book/Chapter	
Geological Society of America	GSA Bulletin, v.97, p.410-420 1986	<i>Paleohydrology of pool and riffle pattern development, Boulder Creek, Utah</i>	O'Connor, J. E., R. H. Webb, and V. R. Baker	Ecology	Journal Article	
2010 Field Season		<i>Hydrologic Activities Accomplished in GSENM</i>	O'Dell, Chris	Ecology	Reports to GSENM	
USGS	U. S. Geological Survey, Open-File Report 84-071, 1984	<i>Hydrologic reconnaissance of the Kolob, Alton, and Kaiparowits Plateau coal fields, South-Central Utah</i>	Plantz, G.	Ecology	Journal Article	Yes
Elsevier	Forest Ecology and Management, 305, 120-128, 2013	<i>Long-term effects of chaining treatments on vegetation structure in pinon-juniper woodlands of the Colorado Plateau</i>	Redmond, Miranda D., Neil S. Cobb, Mark E. Miller, and Nichole M. Barger	Ecology	Journal Article	
American Geophysical Union and the Geochemical Society	Geochemistry Geophysics Geosystems v.11, n.7, July 2010, doi: 10.1029/2010GC003103	<i>Atmospheric mineral dust in dryland ecosystems: Applications of environmental magnetism</i>	Reynolds, Richard L., , Harland L. Goldstein, Mark E. Miller	Ecology	Journal Article	
BLM Cooperative Agreement No.JSA041002, September, 2006		<i>Level 2 Springs Inventory of the Escalante River Headwaters Area, Grand Staircase-Escalante National Monument</i>	Rice, Steven E., and Abraham Springer	Ecology	Reports to GSENM	
GSENM Annual Research Report 2004, (JSA055088)		<i>Stratigraphy, sedimentology, and taphonomy of the Kaiparowits Formation</i>	Roberts, Eric	Ecology	Reports to GSENM	
GSENM Annual Research Report 2005, (JSA055088)		<i>Stratigraphy, sedimentology and taphonomy of Upper Cretaceous strata in the Kaiparowits Basin, GSENM</i>	Roberts, Eric	Ecology	Reports to GSENM	

GSENM Annual Research Report 2006, (JSA055088)		<i>Stratigraphy, sedimentology and taphonomy of Upper Cretaceous strata in the Kaiparowits Basin, GSENM</i>	Robetts, Eric	Ecology	Reports to GSENM	
GSENM Annual Research Report 2007, (JSA055088)		<i>Stratigraphy, sedimentology and taphonomy of Upper Cretaceous strata in the Kaiparowits Basin, GSENM</i>	Robetts, Eric	Ecology	Reports to GSENM	
Society for Range Management, www.rangelands.org,	Rangeland Ecology & Management, 61(6), Nov., 2008	<i>Native Plant Growth and Seedling Establishment in Soils Influenced by Bromus tectorum</i>	Rowe, Helen I., and Cynthia S. Brown	Ecology	Journal Article	
Society for Ecological Restoration International 2007	Restoration Ecology, 2008, doi:10.1111/j.1526-100x.2008.00385.x	<i>The Influence of Soil Inoculum and Nitrogen Availability on Restoration of High-Elevation Steppe Communities Invaded by Bromus tectorum</i>	Rowe, Helen I., Cynthia S. Brown, Mark W. Paschke	Ecology	Journal Article	
Wiley Blackwell	Restoration Ecology V.15, N.1, P. 44-52, March 2007 Editor-in-Chief Richard Hobbs	<i>Comparisons of Mycorrhizal Responsiveness with Field Soil and Commercial Inoculum for Six Native Montane Species and Bromus tectorum</i>	Rowe, Helen I., Cynthia S. Brown, Victor P. Claassen	Ecology	Journal Article	
Blackwell Publishing	Ecology Letters, 2006, 9:501-515	<i>The promise and the potential consequences of the global transport of mycorrhizal fungal inoculum</i>	Schwartz, Mark W., Jason D. Hoeksema, Catherine A. Gehring, Nancy C. Johnson, John N. Klironomos, Lynette K. Abbott, Anne Pringle	Ecology	Journal Article	
Southwestern Association of Naturalists	The Southwestern Naturalist 54 (2); 201-230, June, 2009	<i>Roost sites of Allen's Lappet-Browed Bats (Idionycteris Phyllotis)</i>	Siders, Melissa S., and Wesley Jolley	Ecology	Journal Article	

USGS	Memo and accompanying electronic data sets created by the USGS for the BLM, 2002	<i>An inventory of wells in Grand Staircase-Escalante National Monument and surrounding areas, Kane and Garfield Counties, Utah.</i>	Spangler, L. E., S. Wright, and B. Stolp	Ecology	Journal Article	
Brigham Young University	Western North American Naturalist v.65, n.1, p.103-111, 2005	<i>Notes on significant collections and additions to the flora of Glen Canyon National Recreation Area, Utah</i>	Spence, John	Ecology	Journal Article	
2010 Annual Report UT-30-10-01		<i>Identification and collection of Penstemon taxa native to Utah for diversification, documentation, and genotyping studies</i>	Stevens, Mikel R.	Ecology	Reports to GSENM	
Natural Resource Ecology Laboratory, 3rd edition, December, 2003		<i>Landscape-scale Assessment of Native and Exotic Plant Diversity and Microbiotic Crusts in the Grand Staircase-Escalante National Monument, Utah - Linking Field Data in MS Access to ArcView Procedures Guide</i>	Stohlgren, T. J., Paul Evangelista, and Debra Guenther	Ecology	Reports to GSENM	
	Comments on Theoretical Biology, 7:355-379, 2002 DOI:	<i>Beyond Theories of Plant Invasions: Lessons From Natural Landscapes</i>	Stohlgren, Thomas	Ecology	Journal Article	
Springer www.springer.com	Plant and Soil (2005) 277: 7-18 DOI 10.1007/s11104-005-4893-5	<i>Life-history habitat matching in invading non-native plant species</i>	Stohlgren, Thomas J., Catherine Crosier, Geneva W. Chong, Debra Guenther and Paul Evangelista	Ecology	Journal Article	
Blackwell Publishing	Ecology Letters, (2008) 11: 313-326 doi: 10.1111/j.1461-0248.2008.01153.x	<i>The myth of plant species saturation</i>	Stohlgren, Thomas J., David T. Barnett, Catherine S. Jarnevich, Curtis	Ecology	Journal Article	

Ecological Society of America	Ecological Applications, 15(2), 2005, pp. 715-725	<i>Patterns of Plant Species Richness, Rarity, Endemism, and Uniqueness in an Arid Landscape</i>	Stohlgren, Thomas J., Debra A. Guenther, Paul H. Evangelista, and Nathaniel Alley	Ecology	Journal Article	
American Institute of Biological Sciences	BioScience, June, 2000, vol.50, no.6, p.529-536	<i>Using New Video Mapping Technology in Landscape Ecology</i>	Stohlgren, Thomas J., Margot W. Kaye, A. Dennis McCrumb, Yuka Otsuki, Betsy Pfister, Cynthia A. Villa	Ecology	Journal Article	
Kluwer Academic Publishers	Biological Invasions 3: 37-50, 2001	<i>Patterns of plant invasions: a case example in native species hotspots and rare habitats</i>	Stohlgren, Thomas J., Yuka Otsuki, Cynthia A. Villa, Michelle Lee and Jayne Belnap	Ecology	Journal Article	
U. S. Dept. of Agriculture	Natural Resources Conservation Services NRCS, Cedar City, UT	<i>Grand Staircase-Escalante National Monument Photo Map Unit Descriptions</i>	Sutcliffe, Kent, Corey Meier, Kristen May	Ecology	Journal Article	
University of Arizona Press, Tucson		<i>Impacts of Fuels Reduction on Avian Communities in Pinyon-Juniper Woodlands</i>	van Riper III, Charles, and Claire Crow	Ecology	Reports to GSENM	
University of Arizona Press, Tucson	in vanRiper, Charles III, C. M. L. Villarreal, C. J. vanRiper, and M. J. Johnson, editors, The Colorado Plateau V: Research, environmental planning and management for collaborative conservation, 343 p.	<i>Avian Community Responses to Vegetation Structure within Chained and Hand-cut Pinyon-Juniper Woodlands on the Colorado Plateau</i>	vanRiper III and Claire Crow	Ecology	Book/Chapter	

Natural Resource Ecology Laboratory, Technical Report, 1998-2004		<i>Landscape-Scale Assessment of Grand Staircase-Escalante National Monument</i>	Waters, M. Alycia, Thomas J. Stohlgren, Paul Evangelista, Debra Guenther, Nathaniel Alley, and Greg J. Newman, eds.	Ecology	Reports to GSENM	
USGS http://pubs.usgs.gov/imap/i2771/	Geologic Investigations Series Map I-2771, scale 1:5000, 2004	<i>Pamphlet: Comparative landscape photographs of the Lonely Dell area and the mouth of the Paria River</i>	Webb, R. H., and R. Hereford	Ecology	Journal Article	
	Transportation Research board Record, 1201, p.9-21, 1989	<i>Paleoflood hydrologic research in the southwestern United States</i>	Webb, R. H., and S. L. Rathburn	Ecology	Journal Article	
D. Reidel Publishers, Dordrecht, The Netherlands in USA by Kluwer Academic Publishers	in Singh, V., editor, Regional Flood-Frequency Analysis, 1987, p.306-320	<i>Changes in hydrologic conditions related to large floods on the Escalante River, south-central Utah</i>	Webb, R. H., and V. R. Baker	Ecology	Book/Chapter	
USGS http://pubs.er.usgs.gov	USGS Fact Sheet 2004-3062, Aug., 2004	<i>Climatic fluctuations, drought, and flow of the Colorado River</i>	Webb, R. H., G. J. McCabe, R. Hereford, C. Wilkowske	Ecology	Journal Article	
John Wiley and Sons	in Baker, V. R., R. C. Kochel, and P. C. Patton, editors, Flood geomorphology, P.403-418	<i>Paleohydrologic reconstruction of flood frequency on the Escalante River, south-central Utah</i>	Webb, R. H., J. E. O'Connor, and V. R. Baker	Ecology	Book/Chapter	
Grand Canyon Natural History Association	Grand Canyon Natural History Association Monograph N. 9, 91 p	<i>Historic channel change of Kanab Creek, southern Utah and northern Arizona</i>	Webb, R. H., S. S. Smith and V. A. S. McCord	Ecology	Journal Article	
Elsevier	Journal of Hydrology, 320 (2006), 302-323	<i>Ground-water surface-water interactions and long term change in riverine riparian vegetation in the southwestern United States</i>	Webb, Robert H., and Stanley A. Leake	Ecology	Journal Article	

Geological Society of America	GSA Bulletin; Jul/Aug. 2008, V.120, n.7/8, p.1010-1020, doi: 10.1130/B26055./	<i>Holocene debris flows on the Colorado Plateau: The influence of clay minerology and chemistry</i>	Webb, Robert H., Peter G. Griffiths, Lawrence P. Rudd	Ecology	Journal Article	
	RHODORA, Vol. 103, No. 913, p. 71-95, 2001	<i>New Taxa and Nomenclatural Proposals in Miscellaneous Families -- Utah and Arizona</i>	Welsh, S. L., and N. D. Atwood	Ecology	Journal Article	
November, 1998		<i>Flora of Bureau of Land Management Grand Staircase Escalante National Monument</i>	Welsh, Stanley L., and Nephi Duane Atwood	Ecology	Reports to GSENM	
November, 2000		<i>Flora of Bureau of Land Management Grand Staircase Escalante National Monument and Kane County, Utah</i>	Welsh, Stanley L., and Nephi Duane Atwood	Ecology	Reports to GSENM	
November, 2001		<i>Flora of Bureau of Land Management Grand Staircase Escalante National Monument and Kane County, Utah</i>	Welsh, Stanley L., and Nephi Duane Atwood	Ecology	Reports to GSENM	
Brigham Young University	The Great Basin Naturalist, Vol. 38, No. 2 June 30, 1978	<i>Kaiparowits Flora</i>	Welsh, Stanley L., N. Duane Atwood, Joseph R. Murdock	Ecology	Journal Article	
USGS http://pubs.usgs.gov www.usgs.gov	U.S. Geological Survey Open-File Report 95-340, 1995	<i>Origin of water that discharges from Calf Creek Spring, Garfield County, Utah</i>	Wilberg, Dale E.	Ecology	Journal Article	
USGS	USGS Scientific Investigations Report 2004-5233, 39 pages plus one plate.	<i>Seepage investigation and selected hydrologic data for the Escalante River drainage basin, Garfield and Kane Counties, Utah, 1909-2002</i>	Wilberg, Dale E., and B. J. Stolp	Ecology	Journal Article	
USGS http://ut.water.usgs.gov	USGS Fact Sheet 037-03, April 2003	<i>Drought Conditions in Utah During 1999-2002: A Historical Perspective</i>	Wilkowske, Chris D., David V. Allen, Jeff V. Phillips	Ecology	Journal Article	

Annual Report 2009		<i>Estimating Occupancy Rates, Reproductive Effort and Effects of Recreation on Mexican Spotted Owls in Southern Utah</i>	Willey, David	Ecology	Reports to GSENM	
Final Report, 2007		<i>Ecology of Small Mammals within Spotted Owl Nest Areas in Grand Staircase-Escalante National Monument</i>	Willey, David	Ecology	Reports to GSENM	
BioOne	The Wilson Journal of Ornithology, 125(4): 775-781, 2013	<i>Diet of Mexican Spotted Owls in Utah and Arizona</i>	Willey, David W.	Ecology	Journal Article	
Brigham Young University	Great Basin Naturalist, v.53, n.2: p.145-161, 1993	<i>Late Quarternary Vegetation and Climate in the Escalante River Basin on the Central Colorado Plateau</i>	Withers, Kim, and Jim I. Mead	Ecology	Journal Article	
Utah Native Plant Society unps@unps.org	Sego Lily, 33(3), May 2010	<i>The Cactus and the Beetle</i>	Woodruff, Dorde W.	Ecology	Journal Article	
Journal of Energy, Natural Resources, and Environmental Law	Journal of Land, Resources & Environmental Law, v.29, n.2	<i>Managing the Monument: Cows and Conservation in Grand Staircase-Escalante National Monument</i>	Wrabley, Jr., Raymond B., U. of Pittsburgh at Johnstown, PA Prof & Chair Political Science	Ecology	Journal Article	
Utah Natural Heritage Program of the Utah Division of Wildlife Resources		<i>Inventory of the Amphibians and Reptiles of the Grand Staircase-Escalante National Monument</i>		Ecology	Reports to GSENM	
Geological Society of America	GSA Abstracts with Programs, Annual Meeting Rocky Mountain Section, p.A-12	<i>New records of vertebrates from the Late Cretaceous tropic shale of southern Utah</i>	Albright, L. B., D. D. Gillette, and A. L. Titus	Geology	Conference Proceedings/ Professional Papers	

Elsevier	Cretaceous Research, 63, 77-94, 2016	<i>Magnetostratigraphy of Upper Cretaceous strata in Grand Staircase-Escalante National Monument, southern Utah: The Santonian-Campanian Stage boundary reassessment of the C33N/C33R magnetochron boundary, and implications for regional sedimentation patterns within the Sevier Foreland Basin</i>	Albright, L.B., Alan L. Titus	Geology	Journal Article	
Elsevier	Sedimentary Geology , 230, 60-76, 2010	<i>Facies control on sandstone composition (and influence of statistical methods on interpretations) in the John Henry Member, Straight Cliffs Formation, Southern Utah, USA</i>	Allen, Jessica L., and Cari L. Johnson	Geology	Journal Article	
Utah Geological Association	in Carney, Stephanie M., David E. Tabet, Carl L. Johnson, editors, Geology of South Central Utah, Utah Geological Association Publication 39,2010	<i>Sedimentary Facies, Paleoenvironments, and Relative Sea Level Changes in the John Henry Member, Cretaceous Straight Cliffs Formation, Southern Utah, USA</i>	Allen, Jessica L., and Cari L. Johnson	Geology	Book/Chapter	
Wiley-Blackwell	Sedimentology, 58, 1486-1513, 2011	<i>Architecture and formation of transgressive-regressive cycles in marginal marine strata of the John Henry Member, Straight Cliffs Formation, Upper Cretaceous of Southern Utah, USA</i>	Allen, Jessica L., and Cari L. Johnson	Geology	Journal Article	
GSENM Permit UT-06-033-01-G Permit Report 2007		<i>Controls on marginal marine and nonmarine stratigraphic architecture: New constraints from the Cretaceous Straight cliffs Formation, Utah</i>	Allen, Jessica, Cari Johnson, and Will Gallin	Geology	Reports to GSENM	

Utah Geological Survey	Circular 93, January, 1997	<i>A Preliminary assessment of energy and mineral resources within the Grand Staircase-Escalante National Monument</i>	Allison, M. Lee	Geology	Journal Article	
Utah Geological Survey	UGS Survey Notes, v.35, n.9, p.3-6, Aug., 2003	<i>The Wolverine Petrified Forest</i>	Ash, Sidney	Geology	Journal Article	
Geological Society of America	Rocky Mountain - 54th Annual Meeting, Session No. 8, May 7-9, 2002	<i>Paleobotanical Resources of the Grand Staircase-Escalante National Monument, Utah</i>	Ash, Sidney R.	Geology	Conference Proceedings/ Professional Papers	
Geological Society of America	Rocky Mountain - 54th Annual Meeting, Session No. 8, May 7-9, 2002	<i>Creation and Burial of a Major Mesozoic Landform: New Microfossil Evidence Bearing on the Age of the J-2 Unconformity (Grand Staircase-Escalante National Monument, Utah)</i>	Ash, Sidney R., and Ronald J. Litwin	Geology	Conference Proceedings/ Professional Papers	
		<i>Facies analysis of the Virgin Limestone Member, Moenkopi Formation, Northwest Arizona and Southwest Utah</i>	Auld, T. W., Masters Thesis, 1976	Geology	Thesis and Dissertations	
Doubleday, Garden City, New York	1972	<i>Red rock country: the geological history of the Colorado Plateau</i>	Baars, D. L.	Geology	Book/Chapter	
University of New Mexico Press, Albuquerque	1983	<i>The Colorado Plateau: a geologic history</i>	Baars, D. L.	Geology	Book/Chapter	
Geological Society of America	Geological Society of America, Abstracts with Programs, v.7, p.716, 1975	<i>Conodont biostratigraphy of the Kaibab and lower Plymton Formations</i>	Baird, M. R., and J. W. Collinson	Geology	Conference Proceedings/ Professional Papers	
		<i>Conodont biostratigraphy of the Kaibab Formation, eastern Nevada and west-central Utah</i>	Baird, M. R., Master's Thesis, 1975	Geology	Thesis and Dissertations	

		<i>Mechanism and sequence of formation of deformation bands into spatially localized or distributed sets: ladders, riedels, and echelon arrays of Utah</i>	Balasko, Clara, Masters of Science Thesis, 2003	Geology	Thesis and Dissertations	
Wiley-Blackwell	Geofluids, 11, 124-133, 2011	<i>Precipitation patterns formed by self-organizing processes in porous media</i>	Barge, L. M., D. E. Hammond, M. A. Chan, S. Potter, J. Petruska, K. H. Nealson	Geology	Journal Article	
		<i>Investigation of Permeability Patterns and Diagenetic Heterogeneity Along the J-2 Unconformity (UT-CO-AZ)</i>	Bechberger, Melody, Master of Arts thesis, 2011	Geology	Thesis and Dissertations	
The Americal Association of Petroleum Geologists	AAPG Bulletin, V.91, No. 2 (Feb.2007), p. 173-190	<i>Reflectance spectroscopic mapping of diagenetic heterogeneities and fluid-flow pathways in the Jurassic Navajo Sandstone</i>	Beitler Bowen, Brenda, Brigitte A. Martini, Marjorie A. Chan, William T. Parry	Geology	Journal Article	
2005 Annual Report		<i>Sandstone bleaching and iron concretions in the Jurassic Navajo Sandstone, southern Utah</i>	Beitler, Brenda	Geology	Reports to GSENM	
Geological Society of America	Geology; Dec. 2003 V. 31, no. 12; P 1041-1044 1 table	<i>Bleaching of Jurassic Navajo Sandstone on Colorado Plateau Laramine highs: Evidence of exhumed hydrocarbon supergiants:</i>	Beitler, Brenda, Marjorie A. Chan, William T. Parry	Geology	Journal Article	
SEPM (Society for Sedimentary Geology)	Journal of Sedimentary Research, 2005, V. 75, 547-561 DOI: 10.2110/jsr.2005.045	<i>Fingerprints of Fluid Flow: Chemical Diagenetic History of the Jurassic Navajo Sandstone, Southern Utah, U.S.A.</i>	Beitler, Brenda, W.T.Parry and Marjorie A. Chan	Geology	Journal Article	

Geological Society of America	GSA Abstract with Programs, Annual Meeting, Poster, 2002	<i>Field Mapping and Multispectral Analysis of Jurassic Navajo Sandstone color and iron mineralization, Grand Staircase-Escalante National Monument, Utah</i>	Beitler, Brenda, Marjorie A. Chan, and William T. Parry	Geology	Conference Proceedings/ Professional Papers	
2009 Final Report		<i>Focus on understanding the depositional and diagenetic history of the Navajo Sandstone</i>	Beitler-Bowen, Brenda	Geology	Reports to GSENM	
John Wiley and Sons	Geofluids, Feb 4., 2014	<i>Fracture-focused fluid flow in an acid and redox-influenced system: Diagenetic controls on cement minerology and geomorphology in the Navajo sandstone</i>	Bell, Julianne H., and B. B. Bowen	Geology	Journal Article	
Elsevier	Remote Sensing of Environment, 114, 2259-2270, 2010	<i>Imaging spectroscopy of jarosite cement in the Jurassic Navajo Sandstone</i>	Bell, Julianne H., Brenda Beitler Bowen, Brigitte A. Martini	Geology	Journal Article	
		<i>Spatial Analysis of Channel-Belt Stacking Patterns: Metrics to Discriminate Between Local and Regional controls on Deposition in the Fluvial John Henry Member of the Straight cliffs Formation, Southern Utah</i>	Benhallam, Wassim, Master of Science in Geology Thesis, April, 2015	Geology	Thesis and Dissertations	
Oxford University Press		<i>Grand Canyon Geology</i>	Beus, Stanley and Morales, Michael, eds	Geology	Book/Chapter	Yes
Intermountain Association of Petroleum Geologists, 1954	5th Annual Field Conference Guidebook	<i>The Kaiparowits Region</i>	Bissell, H. J.	Geology	Conference Proceedings/ Professional Papers	

Intermountain Association of Petroleum Geologists, 1963	12th Annual Field Conference, Guidebook to the Geology of Southwestern Utah, Vol.37, p.42-58	<i>Pennsylvanian and Permian Systems of southwestern Utah</i>	Bissell, H. J.	Geology	Conference Proceedings/ Professional Papers	
SEPM (Society for Sedimentary Geology)	in Longman, M. W., and M. D. Sonnenfeld, editors, Paleozoic systems of the Rocky Mountain region, USA, 1996	<i>Permian eolian deposits, sequences, and sequence boundaries, Colorado Plateau</i>	Blakey, R. C.	Geology	Book/Chapter	
Rocky Mountain Section of Society of Economic Paleontologists and Mineralogists	in Reynolds, M. W., and E. D. Dolley, editors, Mesozoic paleogeography of west-central United States, 1983	<i>Paleogeography of Middle Jurassic continental, shoreline, and shallow marine sedimentation, southern Utah</i>	Blakey, R. C., F. Peterson, M. V. Caputo, R. C. Geesman, and B. J. Voorhees	Geology	Book/Chapter	
Museum of Northern Arizona	in Morales, M., Editor, Aspects of Mesozoic geology and paleontology of the Colorado Plateau, Bulletin 59, p.13-26, 1993	<i>Early and Middle Triassic paleogeography of the Colorado Plateau and vicinity</i>	Blakey, R. C., M. J. Cook, and E. L. Basham,	Geology	Book/Chapter	
		<i>Geology of the Paria Northwest quadrangle, Kane County, Utah</i>	Blakey, R. C., Masters Thesis, 1970	Geology	Thesis and Dissertations	
		<i>The Calico Bed, Upper Cretaceous, Southern Utah: A Fluvial Sheet Deposit in the Western Interior Foreland Basin and its Relationship to Eustasy and Tectonics</i>	Bobb, Margaret Cook, Master of Science Thesis, July, 1991, High School teacher in Denver	Geology	Thesis and Dissertations	
		<i>Sandstone Bleaching and Iron Concretions: An Index to Fluid Pathways and Diagenetic History of the Jurassic Navajo Sandstone, Southern Utah</i>	Bowen, Brenda Beitler, Ph.D Dissertation, 2005	Geology	Thesis and Dissertations	

Geological Society of America	Rocky Mountain - 54th Annual Meeting, Session No. 2, May 7-9, 2002	<i>Eggshell from the Upper Campanian Kaiparowits Formation</i>	Bray, Emily S.	Geology	Conference Proceedings/ Professional Papers	
Geological Society of America	GSA Annual Meeting, Session No. 31, Paper No. 31-0, November 5-8, 2001	<i>Stratigraphic and Paleo-environmental Study and Interpretation of the Chinle Formation, Wolverine Petrified Wood Area, Grand Staircase-Escalante National Monument, Utah</i>	Brown, Christina M.	Geology	Conference Proceedings/ Professional Papers	
		<i>Sedimentology and sequence stratigraphy of the Chinle Formation, Southern Utah</i>	Brown, Christina M., Master of Science Thesis, May 2003	Geology	Thesis and Dissertations	
Los Angeles: Institute of Geophysics and Planetary Physics, University of California, 1975		<i>Kaiparowits Handbook: Coal Resource</i>	Carey, Dwight, et al.	Geology	Book/Chapter	Yes
SEPM (Society for Sedimentary Geology)	Journal of Sedimentary Research, 2005, V. 74, No.2, March 2004, P. 270-284	<i>Sedimentology and Fractal-Based Analysis of Permeability Data, John Henry Member, Straight Cliffs Formation (Upper Cretaceous), Utah, U.S.A.</i>	Castle, James W., Fred J. Molz, Silong Lu, Cynthia L. Dinwiddie	Geology	Journal Article	
Nature Publishing Group	Nature vol. 429, June 2004	<i>On Earth, as it is on Mars?</i>	Catling, David C.	Geology	Journal Article	
Summary of research activities for Escalante grant to Dr. Thure Cerling, PI (Dave Marchetti graduate researcher), University of Utah for 2004		<i>Cosmogenic dating work on boulder armored surfaces in the NE part of the monument</i>	Cerling, Thure E., and David Marchetti-graduate researcher	Geology	Reports to GSENM	

Blackwell Publishing	Geofluids, 2007, 7, 1-13, DOI: 10.1111/j.1468-8123.2007.00187.x	<i>Models of iron oxide concretion formation: field, numerical, and laboratory comparisons</i>	Chan, M. A., J. Orno, A. J. Park, M. Stitch, V. Souza-Egipsy, and G. Komatsu	Geology	Journal Article	
Overseas Publishers Association	Paleoclimates, 1999, vol.3(4), p.239-255	<i>Spectral Analysis of Eolian Foreset Periodicities: Implications for Jurassic Decadal-Scale Paleoclimate Oscillators</i>	Chan, Marjorie A., and Allen W. Archer	Geology	Journal Article	
Utah Geological Association	2000 Utah Geological Association Publication 28, p.1-11	<i>Cyclic Eolian Stratification on the Jurassic Navajo Sandstone, Zion National Park: Periodicities and Implications for Paleoclimate</i>	Chan, Marjorie A., and Allen W. Archer	Geology	Journal Article	
Utah Geological Survey	Public Information Series 77, Utah Geological Survey, 2002	<i>Rainbow of Rocks (Brochure) Mysteries of Sandstone Colors and Concretions in Colorado Plateau Canyon Country</i>	Chan, Marjorie A., and William T. Parry	Geology	Journal Article	
Geological Society of America	GSA Today, v.15n.8, August, 2008 DOI:1130/1052-5173(2005)015<4:RRAPPD>2.0.CO;2	<i>Red rock and red planet diagenesis: Comparisons of Earth and Mars concretions</i>	Chan, Marjorie A., Brenda Beitler Bowen, William T. Parry, Jens Ormo, and Goro Komatsu	Geology	Journal Article	
Nature Publishing Group	Nature/vol.429/17 June 2004	<i>A possible terrestrial analogue for haematite concretions on Mars</i>	Chan, Marjorie A., Brenda Beitler, W.T.Parry, Jens Ormo, Goro Komatsu	Geology	Journal Article	
Geological Society of America	Geosphere, Dec.2006, v.2, n.7, p.324-332, DOI: 10.1130/GES00051.1	<i>Iron isotopes constrain the pathways and formation mechanisms of terrestrial oxide concretions: A tool for tracing iron cycling on Mars?</i>	Chan, Marjorie A., Clark M. Johnson, Brian L. Beard, John R. Bowman, W. T. Parry	Geology	Journal Article	

Springer www.springer.com	Aquatic Geochemistry 11:279-302, DOI: 10.1007/s/0498-004-6274-8	<i>Desert Potholes: Ephemeral Aquatic Microsystems</i>	Chan, Marjorie A., Katrina Moser, Jim M. Davis, Gordan Southam, Kebbi Hughes and Tim Graham	Geology	Journal Article	
Elsevier	Icarus International Journal of Solar System Studies, V.194; N.1; p.65-71 March 2008	<i>Polygonal cracks in bedrock on Earth and Mars: Implications for weathering</i>	Chan, Marjorie A., W. Adolph Yonkee, Dennis I. Netoff, Winston M. Seiler, Richard L. Ford	Geology	Journal Article	
American Association of Petroleum Geologists	AAPG Bulletin, v.84, no.9, P.1281-1310	<i>Diagenetic Hematite and Manganese Oxides and Fault-Related Fluid Flow in Jurassic Sandstones, Southeastern Utah</i>	Chan, Marjorie A., W. T. Parry, and J. R. Bowman	Geology	Journal Article	
Moab Museum Publication, moabmuseum.org	Canyon Legacy v.54, p.13-16, 2005	<i>The Navajo Sandstone Color Palette and Marvelous Marbles</i>	Chan, Marjorie A., William T. Parry, and Brenda Beitler	Geology	Journal Article	
Geological Society of America	Geology, April 2001, V.29, No.4, P.331-334	<i>40AR/39AR age and chemistry of manganese mineralization in the Moab and Lisbon fault systems, southeastern Utah</i>	Chan, Marjorie A., William T. Parry, Erich U. Petersen, Chris M. Hall	Geology	Journal Article	
Geological Society of America	GSA Abstracts with Programs, Vol. 37, No. 7, p.115, Salt Lake City Annual Meeting, Session No. 48, Paper No. 48-4, October 16-19, 2005	<i>Red Rock Concretions: Groundwater Records, Science Resource, and Analogs to Mars</i>	Chan, Marjorie A., Brenda Beitler Bowen, and W. T. Parry	Geology	Conference Proceedings/ Professional Papers	

SEPM (Society for Sedimentary Geology)	Sedimentary Geology of Mars, SEPM Special Publication No. 102, 2012	<i>Characteristics of Terrestrial Ferric Oxide Concretions and Implications for Mars</i>	Chan, Marjorie A., Sally L. Potter, B. Bowen, W. T. Parry, Laura M. Barge, Winston Seiler, Erich U. Petersen, John R. Bowman	Geology	Journal Article	
American Association of Petroleum Geologists	in Hurst, A., and J. Cartwright, editors, Sand injectites: Implications for hydrocarbon exploration and production: AAPG Memoir 87, p.233-244 , 2007	<i>Clastic-injection Pipes and Syndepositional Deformation Structures in Jurassic Eolian Deposits: Examples from the Colorado Plateau</i>	Chan, Marjorie, Dennis Netoff, Ronald Blakely, Gary Kocurek, Walter Alvarez	Geology	Book/Chapter	
	in Four Corners Geological Society Guidebook, Ninth Field Conference Permianland, p.-105-113, 1979	<i>Facies analysis of the Kaibab Formation in northern Arizona, southern Utah, and southern Nevada</i>	Cheevers, L. W., and R. R. Rawson	Geology	Book/Chapter	
Society for Sedimentary Geology SEPM	Journal of Sedimentary Research, v.85, p.1166-1196, 2015	<i>Valleys, estuaries, and lagoons: Paleoenvironments and regressive-transgressive architecture of the Upper Cretaceous Straight Cliffs Formation, Utah, U.S.A.</i>	Chentnik, Brenton M., Cari L. Johnson, Julia S. Milhern, and Lisa Straight	Geology	Journal Article	
Geological Society of America	GSA Abstracts with Programs, Vol. 37, No. 7, p.115, Salt Lake City Annual Meeting, Session No. 48, Paper No. 48-6, October 16-19, 2005	<i>Sequence Stratigraphy, Sedimentology, and Provenance of the Drip Tank Member, Straight Cliffs Formation, Kaiparowits Plateau, Southwestern Utah</i>	Christensen, Amy E., and Timothy F. Lawton	Geology	Conference Proceedings/ Professional Papers	

		<i>Sequence stratigraphy, sedimentology and provenance of the Drip Tank Member, Straight Cliffs Formation, Kaiparowits Plateau, Southwestern Utah</i>	Christensen, Amy E., Master of Science Thesis, May, 2005	Geology	Thesis and Dissertations	
	in Carpenter,K., et.al., editors, The Upper Jurassic Morrison Formation -- an interdisciplinary study, Modern Geology 23, p.507- 537, 1998	<i>Appendix - The fauna and flora of the Morrison Formation</i>	Chure, D. J., K. Carpenter, R. Litwin, S. Hasiotis, and E. Evanoff	Geology	Book/Chapte r	
USGS http://pubs.usgs.gov www.usgs.gov	U. S. Geological Survey Bulletin 1229, 1967	<i>Geology of the Circle Cliffs area, Garfield and Kane Counties, Utah</i>	Davidson, E. S.	Geology	Journal Article	
Geological Society of America	Geological Society of America Special Paper 342, p.157, 1999	<i>Structural Geology of the Colorado Plateau region of southern Utah</i>	Davis, George H.	Geology	Journal Article	
Geological Society of America	in Geological Society of America Field Trip Road Log, May 2002	<i>The Geology of the Grand Staircase in Southern Utah: A Road Log and Guide for Public School Teachers</i>	Davis, Larry E., and Robert L. Eves	Geology	Book/Chapte r	
Utah Geological Association	in Carney, S. M., D. E. Tabet, C. L. Johnson, editors, Geology of south- central Utah, Utah Geological Association Publication 39, p.178-193, 2010	<i>Synopitc record in space and time of provenance relations for Mesozoic strata in south-central Utah from U- Pb ages of detrital zircons</i>	Dickinson, W. R., and G. E. Gehrels	Geology	Book/Chapte r	
GSENM Number: UT-05- 032-14-G, December, 2006		<i>Interim Annual Report Due 31 December 2006 to Grand Staircase- Escalante National Monument on Scientific Research and Collecting Permit GSENM UT-05-032-14-G</i>	Dickinson, William R.	Geology	Reports to GSENM	

Elsevier	Earth and Planetary Science Letters, 275, p.80- 92, 2008	<i>Impact of differential zircon fertility of granitoid basement rocks in North America on age populations of detrital zircons and implications for granite petrogenesis</i>	Dickinson, William R.	Geology	Journal Article	
GSENM Number: UT-05- 032-14-G, December, 2007		<i>Preliminary (Incomplete) Final Report to Grand Staircase-Escalante National Monument on Scientific Research and Collecting Permit GSENM UT-05-032-14-G [December 31, 2007]</i>	Dickinson, William R.	Geology	Reports to GSENM	
American Journal of Science	Americal Journal of Science, Vol.308, p.1041- 1082, Dec., 2008	<i>Sediment delivery to the Cordilleran Foreland Basin: Insights from U-Pb ages of detrital zircons in Upper Jurassic and Cretaceous strata of the Colorado Plateau</i>	Dickinson, William R., and George E. Gehrels	Geology	Journal Article	
GSENM Number: UT-05- 032-14-G, January, 2008		<i>Sediment Delivery to the Cordilleran Foreland Basin: Insights from U-Pb ages of Detrital Zircons in Upper Jurassic and Cretaceous Strata of the Colorado Plateau</i>	Dickinson, William R., and George E. Gehrels	Geology	Reports to GSENM	
GSENM Number: UT-05- 032-14-G, January, 2009		<i>U-Pb ages of detrital zircons in relation to paleogeography: Triassic paleodrainage networks and sediment dispersal across southwest Laurentia</i>	Dickinson, William R., and George E. Gehrels	Geology	Reports to GSENM	

Geological Society of America	GSA Bulletin, V.121, no.3/4, p.408-433, March/April, 2009	<i>U-Pb ages of detrital zircons in Jurassic eolian and associated sandstones of the Colorado Plateau: Evidence for transcontinental dispersal and intraregional recycling of sediment</i>	Dickinson, William R., George E. Gehrels	Geology	Journal Article	
SEPM (Society for Sedimentary Geology)	Journal of Sedimentary Research, v.78, p.745-764, 2008	<i>U-Pb ages of detrital zircons in relation to paleogeography: Triassic paleodrainage networks and sediment dispersal across southwest Laurentia</i>	Dickinson, William R., George E. Gehrels	Geology	Journal Article	
Springer www.springer.com	International Journal of Earth Science (GeolRundsch), 99:1247-1265, June, 2009	<i>Insights into North American Paleogeography and Paleotectonics from U-Pb ages of detrital zircons in Mesozoic strata of the Colorado Plateau, USA</i>	Dickinson, William R., George E. Gehrels	Geology	Journal Article	
2003 Annual Report		<i>Carbonates of the Grand Staircase Escalante National Monument</i>	Dingle, Patrick	Geology	Reports to GSENM	
Utah Geological Association	in Sprinkel, D. A., T.C. Chidsey Jr., and P. B. Anderson, editors, Geology of Utah's Parks and Monuments, Utah Geological Association Publication 28, 2000	<i>Geology of Grand Staircase-Escalante National Monument, Utah</i>	Doelling, H. H., R. E. Blackett, A. H. Hamblin, J. D. Powell, and G. L. Pollock	Geology	Book/Chapter	
Utah Geological Survey	U. S. Geological and Mineral Survey Monograph Series, v.1, p.67-250, 1972	<i>Kaiparowits Plateau coal field</i>	Doelling, H. H., and R. L. Graham	Geology	Journal Article	
Utah Geological and Mineralogical Survey, 1968		<i>Carcass Canyon Coal Area, Kaiparowits Plateau, Garfield and Kane Counties, Utah</i>	Doelling, Hellmut	Geology	Book/Chapter	Yes

Utah State Historical Society and The Economic Geology Pub. Co. 1913	Utah Geological and Mineral Survey, a division of Utah Department of Natural Resources, Bulletin 124, 1989	<i>The Geology of Kane County, Utah Geology, Mineral Resources, Geologic Hazards</i>	Doelling, Hellmut H., and Fitzhugh D. Davis with sections on petroleum and carbon dioxide by Cynthia J. Brandt	Geology	Journal Article	
Utah Geological Association	in Anderson, P. B., and D. A. Sprinkel, editors, Geologic Road, Trail, and Lake Guides to Utah's Parks and Monuments, Utah Geological Association Publication 29	<i>Geologic Road Guides to Grand Staircase-Escalante National Monument, Kane and Garfield Counties, Utah</i>	Doelling, Helmut H., Robert E. Blackett, Alden H. Hamblin, J. Douglas Powell, Gayle L. Pollock	Geology	Book/Chapter	
		<i>Tying Rock Properties from Core to Depositional Processes and Examining the Relationship Through Forward Seismic Reflection Modeling in the Kaiparowits Plateau, Utah</i>	Dworsky, Karenth, Master of Science in Geology, May, 2015	Geology	Thesis and Dissertations	
Geological Society of America	Rocky Mountain - 54th Annual Meeting, Session No. 8, May 7-9, 2002	<i>New Biostratigraphic and Radiometric Ages for Albian-Turonian Dakota Formation and Tropic Shale at Grand Staircase-Escalante National Monument and Iron Springs Formation Near Cedar City, Parowan, and Gunlock in SW Utah</i>	Dyman, T. S., W. A. Cobban, A. Titus, J. D. Obradovich, L. E. Davis, R. L. Eves, G. L. Pollock, K. I. Takahashi, and T. C. Hester	Geology	Conference Proceedings/ Professional Papers	

Geological Society of America	in Geological Society of America Field Trip Road Log, May 2002	<i>Upper Cretaceous Marine and Brackish Water Strata at Grand Staircase-Escalante National Monument, Utah</i>	Dyman, T. S., W. A. Cobban, L. E. Davis, R. L. Eves, G. L. Pollock, J. D. Obradovich, A. L. Titus, K. I. Takahashi, T. C. Hester, and D. Cantu	Geology	Book/Chapter	
Geological Society of America	GSA Abstracts with Programs, 1987 Annual Meeting, Vol.19, p.650-651	<i>Biostratigraphic framework for Late Cretaceous nonmarine sequence, Kaiparowits Plateau, southern Utah</i>	Eaton, J. G.	Geology	Conference Proceedings/ Professional Papers	
Museum of Northern Arizona	in Morales, M., editor, Aspects of Mesozoic geology and paleontology of the Colorado Plateau, v.59, p.163-180, 1993	<i>Mammalian paleontology and correlation of the uppermost Cretaceous rocks of the Paunsagunt Plateau, Utah</i>	Eaton, J. G.	Geology	Book/Chapter	
Geological Society of America	in Nations, J. Ed., and J. G. Eaton, editors, Stratigraphy, depositional environments, and sedimentary tectonics of the western margin, Cretaceous Western Interior Seaway, v.260, p.1-8, 1991	<i>Introduction: Tectonic setting along the margin of the Cretaceous Western Interior Seaway, southwestern Utah and northern Arizona</i>	Eaton, J. G., and J. D. Nations	Geology	Book/Chapter	
		<i>Stratigraphy, depositional environments, and age of Cretaceous mammal-bearing rocks in Utah, and systematics of the Multituberculata</i>	Eaton, J. G., Ph.D. Dissertation, 1987	Geology	Thesis and Dissertations	

Geological Society of America	GSA Bulletin: v.109, no.5, p.560-567, May, 1997	<i>Nonmarine extinction across the Cenomanian-Turonian boundary, southwestern Utah, with a comparison to the Cretaceous-Tertiary extinction event</i>	Eaton, Jeffrey G., James I. Kirkland, J. Howard Hutchison, Robert Denton, Robert C. O'Neill, J. Michael Parrish	Geology	Journal Article	
Elsevier	Chapter 35, Trace Fossils: Concepts, Problems, Prospects, 2007	<i>Ichnofacies of an Ancient Erg: A Climatically Influenced Trace Fossil Association in the Jurassic Navajo Sandstone, Southern Utah, USA</i>	Ekdale, A. A., Richard G. Bromley and David B. Loope	Geology	Book/Chapter	
Geological Society of America	in Nations, J. D., and J. G. Eaton, editors, Stratigraphy, depositional environments, and sedimentary tectonics of the western margin, Cretaceous Western Interior Seaway, Geological Society of America Special Paper, v.260, 1991	<i>Molluscan paleoecology and sedimentation patterns of the Cenomanian-Turonian extinction interval in the southern Colorado Plateau region</i>	Elder, W. P.	Geology	Book/Chapter	
Museum of Northern Arizona	in Morales, M., editor, Aspects of Mesozoic geology and paleontology of the Colorado Plateau, v.59, p.129-152, 1993	<i>Cretaceous paleogeography of the Colorado Plateau and adjacent areas</i>	Elder, W. P. and J. I. Kirkland	Geology	Book/Chapter	
	in Caputo, Mario V., James A. Peterson, and Karen J. Franzyk, editors, Mesozoic Systems of the Rocky Mountain Region, USA, p.415-440 YEAR???	<i>Cretaceous paleogeography of the southern western interior region</i>	Elder, William P., and James I. Krikland	Geology	Book/Chapter	

Geological Society of London	Journal of the Geological Society, London, v.164, 2007, P.755-769 www.geolsoc.org.us/jgs	<i>Deformation bands in sandstone: a review</i>	Fossen, Haakon, Richard A. Schultz, Zoe K. Shipton, Karen Mair	Geology	Journal Article	
Utah Geological Association	in Carney, Stephanie M., David E. Tabet, and Cari L. Johnson, editors, Geology of South Central Utah, +Utah Geological Association Publication 39, 2010	<i>Fluvial and Marine Architecture of the John Henry Member, Straight Cliffs Formation, Kelly Grade of the Kaiparowits Plateau, South-Central Utah</i>	Gallin, William N., Cari L. Johnson, and Jessica L. Allen	Geology	Book/Chapter	
Wiley Blackwell	Geofluids, 2001, v.1, n.3, p.195-213	<i>An exhumed palaeo-hydrocarbon migration fairway in a faulted carrier system, Entrada Sandstone of SE Utah, USA</i>	Garden, I. R., S. C. Guscott, S. D. Burley, K. A. Foxford, J. J. Walsh, and J. Marshall	Geology	Journal Article	
The Americal Association of Petroleum Geologists	American Association of Petroleum Geologists Bulletin 64, p.712, 1980	<i>Facies and depositional tectonics of Middle Jurassic Carmen Formation, southern Utah</i>	Geesaman, R. C., and B. J. Voorhees	Geology	Journal Article	
Geological Society of America	Geology v.1, p.5-20, 1974	<i>Kaibab limestone and associated strata, Circle Cliffs, Utah</i>	Girdley, W. A.	Geology	Journal Article	
		<i>Alluvial Architecture and Predictive Modeling of the Late Cretaceous John Henry Member, Straight Cliffs Formation, Southern Utah</i>	Gooley, J., Master of Science Thesis, 2010	Geology	Thesis and Dissertations	
Geological Society of America	GSA Bulletin 99, p.261-271, 1987	<i>Late Holocene sediment storage in canyons of the Colorado Plateau</i>	Graf, W. L.	Geology	Journal Article	
The University of Chicago Press	Journal of Geology, V. 115, P. 641-654, 2007	<i>Dinosaur tectonics: A structural analysis of theropod undertracks with a reconstruction of theropod walking dynamics</i>	Graversen, O., J. Milan, D. B. Loope	Geology	Journal Article	

Geological Society of America	Geological Society of America Bulletin, v. 59, no. 3, p. 211-248 (1948)	<i>Geology and geography of central Kane County, Utah</i>	Gregory, H. E	Geology	Journal Article	Yes
Society of Vertebrate Paleontology	Journal of Vertebrate Paleontology, v.18, p.48A, 1998	<i>Mesozoic vertebrate footprints in the Grand Staircase-Escalante National Monument, Utah</i>	Hamblin, A. H.	Geology	Journal Article	
Utah Geological Association	in Geology of Utah's Parks and Monuments, UGA Publication 28, 2000	<i>Ancient Animal Footprints and Traces in the Grand Staircase-Escalante National Monument, South-Central Utah</i>	Hamblin, Alden H., and John R, Foster	Geology	Book/Chapter	
		<i>The sedimentology of the Upper Jurassic Formations in the vicinity of Escalante, Utah</i>	Hamilton, E. A., Ph.D. Dissertation, 1949	Geology	Thesis and Dissertations	
USGS http://pubs.usgs.gov www.usgs.gov	U. S. Geological Survey Open-File Report 96-539, 1996	<i>Preliminary investigations of the distribution and resources of coal in the Kaiparowits Plateau, southern Utah</i>	Hettinger, R. D., L. N. R. Roberts, L. R. H. Biewick, and M. A. Kirschbaum	Geology	Journal Article	
USGS	in Kirschbaum, M. A., L. N. R. Roberts, and L. H. R. Biewick, editors, Geologic Assessment of Coal in the Colorado Plateau: Arizona, Colorado, New Mexico, and Utah, Chapter J	<i>A Summary of Coal Distribution and Geology in the Kaiparowits Plateau, Utah</i>	Hettinger, Robert D.	Geology	Book/Chapter	
USGS	in Kirschbaum, M. A., L. N. R. Roberts, and L. H. R. Biewick, editors, Geologic Assessment of Coal in the Colorado Plateau: Arizona, Colorado, New Mexico, and Utah; Chapter T	<i>Geologic Overview and Resource Assessment of Coal in the Kaiparowits Plateau, Southern Utah</i>	Hettinger, Robert D., Laura N. R. Roberts, Laura R. H. Biewick, and Mark A. Kirschbaum	Geology	Book/Chapter	

Utah Geological and Mineralogical Survey, University of Utah, 1966, 1958		<i>Paleozoic Stratigraphy and Oil Possibilities of Kaiparowits Region, Utah</i>	Heylmun, Edgar	Geology	Book/Chapter	Yes
Blackwell Publishing	Basin Research, 2009, doi: 10.1111/j.1365.2117.2009.00398.x	<i>Insights into syndepositional fault movement in a foreland basin; trends in seismites of the Upper Cretaceous, Wahweap Formation, Kaiparowits Basin, Utah, USA</i>	Hilbert-Wolf, Hannah L., Edward L. Simpson, Wendy S. Simpson, Sarah E. Tindall and Michael C. Wizevich	Geology	Journal Article	
Brigham Young University	1988	<i>Geologic History of Utah</i>	Hintze, Lehi	Geology	Journal Article	Yes
Elsevier	Developments in Sedimentology Series Vol 38 (1983) p 429-454	<i>Interpreting cyclic crossbedding, with an example from the Navajo sandstone</i>	Hunter, Ralph E., and David M. Rubin	Geology	Journal Article	
		<i>The magneto-stratigraphy and paleopoles of the Moenave and Kayenta Formations, Kanab, Utah</i>	Hutny, Magdalena, Master of Science, Aug. 2003	Geology	Thesis and Dissertations	
USGS http://pubs.usgs.gov www.usgs.gov	U. S. Geological Survey Professional Paper 483-C, 1964	<i>Marine Jurassic pelecypods from central and southern Utah</i>	Imlay, Ralph W.	Geology	Journal Article	
Ann Arbor Science Publishers	Palo Alto Electric Power Research Institute, editor, 1981	<i>The Kaiparowits coal project and the environment: a case study</i>	Jepperson, R.	Geology	Book/Chapter	
Ann Arbor: Ann Arbor Science Publishers; and Palo Alto: Electric Power Research Institute, 1981		<i>The Kaiparowits Coal Project and the Environment: A Case Study</i>	Jepperson, Ronald, et al.	Geology	Book/Chapter	Yes
SEPM (Society for Sedimentary Geology)	Journal of Sedimentary Research, 2011, v.81, 266-283	<i>Facies associations, paleoenvironment, and base-level changes in the Upper Cretaceous Wahweap Formation, Utah, U.S.A.</i>	Jinnah, Zubair A., and Eric M. Roberts	Geology	Journal Article	

Elsevier	Cretaceous Research 2009 30(2):287-299	<i>New 40Ar/39Ar and detrital zircon U-Pb ages for the Upper Cretaceous Wahweap and Kaiparowits formations on the Kaiparowits Plateau, Utah: implications for regional correlation, provenance, and biostratigraphy</i>	Jinnah, Zubair A., Eric M. Roberts, Alan L. Deino, Joseph S. Larson, Paul K. Link, C Mark Fanning	Geology	Journal Article	
2009 Annual Report UT-06-033-01-G		<i>Straight Cliffs Formation Correlation Project</i>	Johnson, Cari	Geology	Reports to GSENM	
		<i>Braided stream deposition and provenance of the Late Cretaceous-Paleocene(?) Canaan Peak Formation, Table Cliff and Kaiparowits Plateaus, Southwestern Utah</i>	Jones, David Allen , Master of Science Thesis, 1989	Geology	Thesis and Dissertations	
Mary Ann Liebert, Inc.	Astrobiology v-15, n.8, p.616-636	<i>Life and Liesegang: Outcrop-Scale Microbially Induced Diagenetic Structures and Geochemical Self-Organization Phenomena Produced by Oxidation of Reduced Iron</i>	Kettler, Richard M., David B. Loope, Karrie A. Weber, and Paul B. Niles	Geology	Journal Article	
Utah Geological Society	Utah Geological Society Guidebook to Geology of Utah 19, p. 93-111 (1995)	<i>History of exploration for oil and natural in the Kaiparowits region, Utah, in Geology and resources of south-central Utah: Resources for power</i>	Kutkel, R. P	Geology	Journal Article	Yes
		<i>Facies and Provenance of the Pine Hollow Formation: Implications for Seveir foreland basin evolution and the Paleocene climate of Southern Utah</i>	Larsen, Joseph Scott, Master of Science, 2007	Geology	Thesis and Dissertations	

Utah Geological Association	in Carney, Stephanie M., David E. Tabet, and Cari L. Johnson, editors, Geology of South Central Utah, Utah Geological Association Publication 39, 2010	<i>Cyclic Stratigraphy of the Paleogene Pine Hollow Formation and detrital zircon provenance of Campanian to Eocene Sandstones of the Kaiparowits and Table Cliffs Basins, South-Central Utah</i>	Larson, Joseph S., Paul K. Link, Eric M. Roberts, Leif Tapanila and C. Mark Fanning	Geology	Book/Chapter	
		<i>Effects of Relative Sea Level Fluctuations and Other Controls in Linked Nearshore and Hemipelagic Depositional Settings; examples from the Bohemian Cretaceous Basin, Czech Republic, and the U. S. Western Interior</i>	Laurin, Jiri, Ph. D. Thesis, August 2003	Geology	Thesis and Dissertations	
Society of Economic Geologists	Economic Geology, vol. VIII	<i>The Gold of the Shinarump at Paria</i>	Lawson, Andrew C.	Geology	Journal Article	
SEPM (Society for Sedimentary Geology)	Journal of Sedimentary Research 73(3):389-406, 2003	<i>Integrating sandstone petrology and nonmarine sequence stratigraphy: Application to the Late Cretaceous fluvial systems of southwestern Utah, U.S.A.</i>	Lawton, T. J., S. L. Pollock, R. A. J. Robinson	Geology	Journal Article	
USGS	U.S. Geological Survey Miscellaneous Investigations Series Map 1-1033-J, scale 1: 125,000 (1983)	<i>Geologic cross sections of the Kaiparowits coal-basin area, Utah</i>	Lidke, K.J. and Sargent, K.A	Geology	Journal Article	Yes
		<i>The influence of tectonics and eustasy on alluvial architecture, Middle Coniacian through Campanian Strata of the Kaiparowits Basin, Utah</i>	Little, William Woodruff, Ph.D Thesis, 1995, Prof. at BYU Rexberg	Geology	Thesis and Dissertations	
Brigham Young University	Geology Studies, 6:61-180, 1969	<i>Palynology of the Kaiparowits Formation, Garfield County, Utah</i>	Lohrengel, C. Frederick, III	Geology	Journal Article	

Nature Publishing Group	Nature, vol. 412, p. 64-66 2001	<i>Annual monsoon rains recorded by Jurassic dunes</i>	Loope, D. B., C. M. Rowe, R. M. Joeckel	Geology	Journal Article	
Blackwell Publishing	Sedimentology, V. 51, p. 315-322, 2004 (homepage: http://www.wiley.com/bw/journal.asp?ref=0037-0746&site=1)	<i>Tropical Westerlies over Pangean sand seas</i>	Loope, D. B., M. B. Steiner, C. M. Rowe, N. Lancaster	Geology	Journal Article	
2010 Annual Report		<i>2010 Research in Grand Staircase-Escalante National Monument</i>	Loope, David	Geology	Reports to GSENM	
SEPM (Society for Sedimentary Geology)	Palaios, 2008, v. 23, P.411-419 Research Note DOI: 10.2110/palo.2006.p06-133r	<i>Life Beneath the Surfaces of Active Jurassic Dunes: Burrows from the Entrada Sandstone of South-Central Utah</i>	Loope, David B.	Geology	Journal Article	
SEPM (Society for Sedimentary Geology)	Palaios, Editor Jill Hardesty, palaios.ku.edu	<i>Dry-Season Tracks in Dinosaur-Triggered Grainflows</i>	Loope, David B.	Geology	Journal Article	
The University of Chicago Press	The Journal of Geology, 2006, vol. 114, p. 758-762	<i>Burrows Dug by Large Vertebrates into Rain-Moistened Middle Jurassic Sand Dunes</i>	Loope, David B.	Geology	Journal Article	
The University of Chicago Press	The Journal of Geology, 2003, vol. 111, p. 223-232	<i>Long-Lived Pluvial Episodes during Deposition of the Navajo Sandstone</i>	Loope, David B., and Clinton M. Rowe	Geology	Journal Article	
Geological Society of America	Geological Society of American Field Guide 2004	<i>Navajo sand sea of near-equatorial Pangea: Tropical westerlies, slumps, and giant stromatolites</i>	Loope, David B., Len Eisenberg and Erik Waiss	Geology	Journal Article	
The University of Chicago Press	The Journal of Geology, 2008, vol.116, p 173-183	<i>Wind Scour of Navajo Sandstone at the Wave (Central Colorado Plateau, U.S.A.)</i>	Loope, David B., Winston M. Seiler, Joseph A. Mason and Marjorie A. Chan	Geology	Journal Article	

Wiley Blackwell	Geology Today, v.25, n.2, March-April, 2009	<i>Wind erosion of the sind-deposited Navajo Sandstone, USA</i>	Loope, David B., and Joseph A. Mason	Geology	Journal Article	
Elsevier	Sedimentary Geology, 2012, doi:10.1016/j.sedgeo.2012.04.005	<i>Downslope coarsening in aeolian grainflows of the Navajo Sandstone</i>	Loope, David B., James F. Edler, Mark R. Sweeney	Geology	Journal Article	
Geological Society of America	Geosphere; v.11, no.3, June, 2015	<i>The footprints of ancient CO2-driven flow systems: Ferrous carbonate concretions below bleached sandstone</i>	Loope, David B., Richard M. Kettler	Geology	Journal Article	
Geological Society of America	Geology v.38, n.11, p.999-1002, Nov. 2010 doi:10.1130/G31213.1	<i>Follow the water: connecting a CO2 reservoir and bleached sandstone to iron-rich concretions in the Navajo Sandstone of south-central Utah, USA</i>	Loope, David B., Richard M. Kettler, and Karrie A. Weber	Geology	Journal Article	
The University of Chicago Press	The Journal of Geology, v.119, n.5, p.505-520, September, 2011	<i>Morphologic Clues to the Origins of Iron Oxide-Cemented Spheroids, Boxworks, and Pipelike Concretions, Navajo Sandstone of South-Central Utah, U.S.A.</i>	Loope, David B., Richard M. Kettler, and Karrie A. Weber	Geology	Journal Article	
Utah Geological Association	in MacLean, J. S., R. F. Biek, and J. E. Huntton, editors, Geology of Utah's far south, Utah Geological Association Publication 43, p.11-24, 2014	<i>Prelude to Seven Slots: Filling and Subsequent Modification of Seven Broad Canyons in the Navajo Sandstone, South-Central Utah</i>	Loope, David B., Ronald J. Goble, and Joel P. L. Johnson	Geology	Book/Chapter	
	Canyon Legacy (Journal of the Dan O'Laurie Museum, Moab, Utah) v.54, p.8-12, Summer 2005	<i>Seasonal patterns of wind and rain recorded by the Navajo Sandstone</i>	Loope, David, B., and Clinton M. Rowe	Geology	Journal Article	

Geological Society of America	Geosphere C Revolution 2: Origin and Evolution of the Colorado River System II, themed issue	<i>Gravel-capped benches above northern tributaries of the Escalante River, south-central Utah</i>	Marchetti, David W., Scott A. Hynek, and Thure E. Cerling	Geology	Journal Article	
		<i>Quaternary Geology of the Fremont River Drainage Basin, Utah</i>	Marchetti, David Wm., PhD Dissertation, 2006, Prof. of Geology at State U. NY, Genesco	Geology	Thesis and Dissertations	
		<i>Geology of the Escalante - Boulder area, Garfield County, Utah</i>	McFall, C. C., Ph.D. Dissertation, 1955	Geology	Thesis and Dissertations	
Acta Palaeontologica Polonica Editor	Acta Palaeontol. Pol. 53 (2): 197-205, 2008 http://app.p53-197.pdfan.pl/acta53/app	<i>Crouching theropod and Navahopus sauropodomorph tracks from the Early Jurassic navajo Sandstone of USA</i>	Milan, Jesper, David B. Loope, and Richard G. Bromley	Geology	Journal Article	
The University of Chicago Press	The Journal of Geology, 2007, Vol. 115, p. 375-386	<i>Preservation and Erosion of Theropod Tracks in Eolian Deposits: Examples from the Middle Jurassic Entrada Sandstone, Utah, U.S.A.</i>	Milan, Jesper, and David B. Loope	Geology	Journal Article	
Elsevier	Paleo v.297, Issues 3-4, Nov. 20, 2010	<i>Attributes of the wood-boring trace fossil Asthenopodichnium in the Late Cretaceous Wahweap Formation, Utah, USA</i>	Moran, K., H. L. Hilbert-Wolf, K. Golder, H. F. Malenda, C. J. Smith, L. P. Storm, E. L. Simpson, M. C. Wizevich, S. E. Tindall	Geology	Journal Article	
Elsevier	Journal of Arid Environments (2001) 48:89-100	<i>Stabilization of friable sandstone surfaces in a desiccating, wind-abraded environment of south-central Utah by rock surface microorganisms</i>	Netoff, D. I., and H. D. Kurtz, Jr.	Geology	Journal Article	

USGS	USGS Open File report-93-390, 45p., 1993	<i>Morphology and possible origin of giant weathering pits in the Entrada Sandstone, southeastern Utah: preliminary findings</i>	Netoff, D. I., and R. R. Shroba	Geology	Journal Article	
Wiley Blackwell	Sedimentology, 2002, 49, 65-80	<i>Seismogenically induced fluidization of Jurassic erg sands, south-central Utah</i>	Netoff, Dennis	Geology	Journal Article	
John Wiley and Sons	Earth Surface Processes and Landforms, 2008, 33, 000-000 DOI: 10.1002/esp.1697	<i>Aeolian activity at a giant sandstone weathering pit in arid south-central Utah</i>	Netoff, Dennis I., and Marjorie A. Chan	Geology	Journal Article	
USGS	in Sedimentologic and stratigraphic investigations of coal-bearing strata in the Straight Cliffs Formation, Kaiparowits Plateau, Utah, U.S. Geological Survey Bulletin 2115-B, p.21, 1995	<i>Palynostratigraphy in relation to sequence stratigraphy, Straight Cliffs Formation (Upper Cretaceous), Kaiparowits Plateau, Utah</i>	Nichols, Douglas J.	Geology	Book/Chapter	
Geological Society of America	GSA Bulletin March/April, 2006, v.118, n.3/4, p.343-348 doi:10.1130/B25820.1	<i>Near-tip stress rotation and the development of deformation band stepover geometries in mode II</i>	Okubo, Chris H., and Richard A. Schultz	Geology	Journal Article	
Geological Society of London	Journal of the Geological Society, London, v.162, 2005, P.939-949 www.geolsoc.org.us/jgs	<i>Evolution of damage zone geometry and intensity in porous sandstone: insight gained from strain energy density</i>	Okubo, Chris H., and Richard A. Schultz	Geology	Journal Article	
		<i>Strain localization within fault-related folds, with applications to Mars</i>	Okubo, Chris H., PhD Thesis, 2005	Geology	Thesis and Dissertations	
The American Association of Petroleum Geologists	American Association of Petroleum Geologists Bulletin 53, p.734-735, 1969	<i>Significance of palynomorphs as sedimentation indicators in Cretaceous Straight Cliffs Sandstone, Utah</i>	Orlansky, R.	Geology	Journal Article	

Utah Department of Natural Resources	Utah Geological and Mineral Survey, Bulletin 89, 1971	<i>Palynology of the Upper Cretaceous Straight Cliffs Sandstone, Garfield County, Utah</i>	Orlansky, R.	Geology	Journal Article	
Elsevier	Icarus, V.171 (2004) 295-316	<i>Geological features indicative of processes related to the hematite formation in Meridiani Planum and Aram Chaos, Mars: a comparison with diagenetic hematite deposits in southern Utah, USA</i>	Ormo, Jens, Goro Komatsu, Marjorie A. Chan, Brenda Beitler, William T. Parry	Geology	Journal Article	
Geological Society of America	GSA Abstracts with Programs, Rocky Mountain Section, vol.39, no.5, 2007	<i>A lungfish burrow in Late Cretaceous upper capping sandstone member of the Wahweap Formation, Cockscomb area, Grand Staircase-Escalante National Monument, Utah</i>	Orsulak, M., E. L. Simpson, H. L. Wolf, W. S. Simpson, S. E. Tindall, J. J. Bernard, T. A. Jenetsky	Geology	Conference Proceedings/ Professional Papers	
American Association of Petroleum Geologists	Environmental Geosciences, V.14, n.2, P.91-109, June 2007 DOI: 10.1306/eg.07120606004	<i>Geochemistry of CO2 sequestration in the Jurassic Navajo Sandstone, Colorado Plateau, Utah</i>	Parry, W. T., Craig B. Forster, J. P. Evan, Brenda Beitler Bowen, and Marjorie Cahn	Geology	Journal Article	
The Americal Association of Petroleum Geologists	AAPG Bulletin, V.88, No.2 (Feb.2004), P 175-191, 2004	<i>Chemical bleaching indicates episodes of fluid flow in deformation bands in sandstone</i>	Parry, W. T., Marjorie A. Chan, and Brenda Beitler	Geology	Journal Article	
The Americal Association of Petroleum Geologists	American Association of Petroleum Geologists Bulletin 59:00:00, p.919-920, 1975	<i>Influence of tectonism on deposition of coal in Straight Cliffs Formation (Upper Cretaceous), south-central Utah</i>	Peterson, F.	Geology	Journal Article	
		<i>Cretaceous sedimentation and tectonism in the southern Kaiparowits region</i>	Peterson, F.Ph.D. Dissertation, 1969	Geology	Thesis and Dissertations	

USGS	U.S. Geological Survey Bulletin 1274-J: 1-28, 1969	<i>Four new members of the Upper Cretaceous Straight Cliffs Formation in southeastern Kaiparowits region, Kane County, Utah</i>	Peterson, Fred	Geology	Journal Article	Yes
USGS	U.S. Geological Survey Open-File Report, p.259, 1969	<i>Cretaceous sedimentation and tectonism in the southeastern Kaiparowits region</i>	Peterson, Fred	Geology	Journal Article	
USGS	U.S. Geological Survey Professional Paper 1035-A, p.29, 1978	<i>Principle unconformities in Triassic and Jurassic rocks, Western Interior U.S.-a preliminary report</i>	Pipiringos, G. N., and R. G. O'Sullivan	Geology	Journal Article	
www.brycecanyon.org	Bryce Canyon Natural History Association, Research Report, v.97-1, p.75, 1997	<i>Paleontologic inventory of dominantly marine and brackish- water Late Cretaceous rocks in the Grand Staircase-Escalante National Monument</i>	Pollock, G. L., W. A. Cobban, and T. S. Dyman	Geology	Journal Article	
The Americal Association of Petroleum Geologists	Grants-in-aid Recipient for 1998: AAPG Bulletin 82, No.11, p.2166	<i>Provenance, Geometry, depositional facies, and age of the Upper Cretaceous Wahweap Formation, Cordilleran foreland basin, southern Utah</i>	Pollock, S. L.	Geology	Journal Article	
		<i>Provenance, geometry, lithofacies, and age of the Upper Cretaceous Wahweap Formation, Cordilleran Foreland Basin, Southern Utah</i>	Pollock, Stonnie L., Master of Science Thesis, July, 1999	Geology	Thesis and Dissertations	
Wiley Blackwell	Geofluids, 2011	<i>Joint controlled fluid flow patterns and iron mass transfer in Jurassic Navajo Sandstone, Southern Utah, USA</i>	Potter, S. L., and M. A. Chan	Geology	Journal Article	

Elsevier	Earth and Planetary Science Letters, 301, 444-456, 2011	<i>Characterization of Navajo Sandstone Concretions: Mars comparison and criteria for distinguishing diagenetic origins</i>	Potter, Sally L., Marjorie A. Chan, Erich U. Petersen, M. Darby Dyar, Elizabeth Sklute	Geology	Journal Article	
		<i>Characterization of Navajo Sandstone Hydrous Ferric Oxide Concretions</i>	Potter, Sally Latham, Master of Science in Geology Thesis, December 2009	Geology	Thesis and Dissertations	
		<i>Stratigraphic Evolution of an Estuarine Fill Succession, and Reservoir Characterization of Inclined Heterolithic Strata, Cretaceous of Southern Utah, USA</i>	Purcell, Ryan Michael, Master of Science in Geology Thesis, July, 2015	Geology	Thesis and Dissertations	
Geological Society of America	Geology, v.31, p.761-764, 2003	<i>Combined single grain (U-Th)/He and U/Pb dating of detrital zircons from the Navajo Sandstone, Utah</i>	Rahl, J. M., P. W. Reiners, I. H. Campbell, S. Nicolescu, and C. M. Allen	Geology	Journal Article	
Elsevier	Sedimentary Geology, 197:207-233, 2007	<i>Facies architecture and depositional environments of the Upper Cretaceous Kaiparowits Formation, southern Utah</i>	Roberts, E. M.	Geology	Journal Article	
Elsevier	Cretaceous Research 26:307-318, 2005	<i>⁴⁰Ar/³⁹Ar age of the Kaiparowits Formation, southern Utah, and correlation of contemporaneous Campanian strata and vertebrate faunas along the margin of the Western Interior Basin</i>	Roberts, E. M., A. L. Deino and M. A. Chan	Geology	Journal Article	

Geological Society of America	GSA Abstracts with Programs, 2003 Annual Meeting, Rocky Mountain Section, v.35(6),2003	<i>Taphonomic analysis of the Late Cretaceous Kaiparowits Formation in the Grand Staircase-Escalante National Monument, southern Utah</i>	Roberts, E., M. Chan, and S.D. Sampson	Geology	Conference Proceedings/ Professional Papers	
		<i>Stratigraphic, Taphonomic, and Paleoenvironmental Analysis of the Upper Cretaceous Kaiparowits Formation, Grand Staircase-Escalante National Monument, Southern Utah</i>	Roberts, Eric C., PhD Dissertation, 2005	Geology	Thesis and Dissertations	
The Paleontological Society www.paleosoc.org	Journal of Paleontology, 80:768-774, 2006	<i>A new social insect nest from the Upper Cretaceous Kaiparowits Formation of Southern Utah</i>	Roberts, Eric M., and Leif Tapanila	Geology	Journal Article	
The Paleontological Society www.paleosoc.org	Journal of Paleontology 81(1), 2007, p.201-208	<i>Continental insect borings in dinosaur bone: Examples from the Late Cretaceous of Madagascar and Utah</i>	Roberts, Eric M., Raymond D. Rogers, Brady Z. Foreman	Geology	Journal Article	
Utah Geological Association	in Carney, Stephanie M., David E. Tabet, and Cari L. Johnson, editors, Geology of South Central Utah, Utah Geological Association Publication 39, 2010	<i>Variations in iron oxide, iron sulfide, and carbonate concretions and their distributions in fluvio-deltaic and nearshore sandstones: Cretaceous examples from the Kaiparowits Plateau, Utah, and San Juan Basin, New Mexico</i>	Roberts, Eric M., and Marjorie A. Chan	Geology	Book/Chapter	
Geological Society of America	GSA Abstracts with Programs, 2005 Annual Meeting, Rocky Mountain Section, 37:115, 2005	<i>Taphonomy of an unusual freshwater shell bed in the Upper Cretaceous Kaiparowits Formation, southern Utah</i>	Roberts, Eric M., Leif Tapanila, and Brandon Mijal	Geology	Conference Proceedings/ Professional Papers	
USGS	U. S. Geological Survey Professional Paper 1561, 1995	<i>Paleogeography of the Late Cretaceous of the western interior of middle North America--coal distribution and sediment accumulation</i>	Roberts, Laura N. Robinson, and Mark A. Kirschbaum	Geology	Journal Article	

Department of Geosciences, University of Nebraska, Lincoln, NE	Science, Vol. 318 32 November 2007	<i>Inconsistencies Between Pangean Reconstructions and Basic Climate Controls</i>	Rowe, Clinton M., David B. Loope, Robert J. Oglesby, Rob Van der Voo, Charles E. Broadwater	Geology	Journal Article	
Elsevier	Developments in Sedimentology Series Vol 38 (1983) p 407-427	<i>Reconstructing bedform assemblages from compound crossbedding</i>	Rubin, D.M., and Ralph E. Hunter	Geology	Journal Article	
SEPM (Society for Sedimentary Geology)	in Crossy, Laura, and Donald McNeil, Co- Editors, Concepts in Sedimentology and Paleontology, No.1, Second Edition, 2006	<i>Cross-Bedding, Bedforms, and Paleocurrents</i>	Rubin, David M., and Carissa Carter	Geology	Book/Chapte r	
Geological Society of America	in Field Trip Guidebook 100th Annual Meeting, October 26-29, 1987	<i>Field Guide to Sedimentary Structures in the Navajo and Entrada Sandstones in Southern Utah and Northern Arizona</i>	Rubin, David M., and Ralph E. Hunter	Geology	Book/Chapte r	
Wiley Blackwell	Sedimentology, 32, 147- 157, 1985	<i>Why deposits of longitudinal dunes are rarely recognized in the geologic record</i>	Rubin, David M., and Ralph Hunter	Geology	Journal Article	
USGS	U. S. Geological Survey Bulletin 1601, 1984	<i>Environmental geologic studies of the Kaiparowits Coal-Basin area, Utah</i>	Sargent, K. A.	Geology	Journal Article	
USGS http://pubs.usgs.gov www.usgs.gov	U.s. Geological Survey Miscellaneous Investigations Series MAP- I-1033-I, 1982	<i>Bedrock geologic map of the Kaiparowits coal-basin area, Utah</i>	Sargent, K. A., and D. E. Hansen	Geology	Journal Article	
USGS	U. S. Geological Survey Open-File Report 76-811, 1976	<i>General geology and mineral resources of the coal area of south- central Utah</i>	Sargent, K. A., and D. E. Hansen	Geology	Journal Article	Yes
USGS	U.S. Geological Survey Bulletin 1601, 1984	<i>Environmental Geologic Studies of the Kaiparowits Coal-Basin Area, Utah</i>	Sargent, K.A	Geology	Journal Article	Yes

USGS	U.S. Geological Survey Miscellaneous Investigations Series Map 1-1033-G. scale 1:125,000 (1980)	<i>Landform map of the Kaiparowits coal-basin area, Utah</i>	Sargent, K.A., and Hansen. D.E	Geology	Journal Article	Yes
Elsevier	Tectonophysics 411 (2005), 1-18, 2005	<i>A general framework for the occurrence and faulting of deformation bands in porous granular rocks</i>	Schultz, R. A., and R. Siddharthan	Geology	Journal Article	
American Geophysical Union and the Geochemical Society	Journal of Geophysical Research, v.114, B03407, 2009 doi: 10.1029/2008JB005876	<i>Scaling and paleodepth of compaction bands, Nevada and Utah</i>	Schultz, Richard A.	Geology	Journal Article	
The American Geophysical Union 2003	Geophysical Research Letters, Vol.30, No.20, 2003, doi:10.1029/2003GL01844 9	<i>Growth of deformation bands into echelon and ladder geometries</i>	Schultz, Richard A., and Clara M. Balasko	Geology	Journal Article	
American Association of Petroleum Geologists	AAPG Bulletin, v.92, n.7, p.853-867, July, 2008	<i>Terminology for structural discontinuities</i>	Schultz, Richard A., and Haakon Fossen	Geology	Journal Article	
Geological Society of America	Geology, v.19, p.742-745, 1991	<i>Predicting facies architecture through sequence stratigraphy--an example from the Kaiparowits Plateau, Utah</i>	Shanley, K.	Geology	Journal Article	
Geological Society of America	Geology, vol. 19. no. 7 (July I, 1991) pp.-742-74	<i>Predicting Facies Architecture Through Sequence Stratigraphy--An Example from the Kaiparowits Plateau, Utah</i>	Shanley, Keith	Geology	Journal Article	Yes
	in Titus, A., editor, Paleontology and Geology of the Cretaceous Interior Seaway, Jan. 2010	<i>Implications of the Internal Plumbing of a Late Cretaceous Sand Blow: Grand Staircase-Escalante National Monument, Utah</i>	Simpson, E. L., H. L. Hilbert-Wolf, M. C. Wizevich, S. E. Tindall	Geology	Book/Chapte r	

Geological Society of America	Geology, November 2009, v.37, n.11, p.967-970 doi:10.1130/G30022A.1	<i>An Upper Cretaceous sag pond deposit: Implications for recognition of local seismicity and surface rupture along the Kaibab monocline, Utah</i>	Simpson, E. L., M. C. Wizevich, H. L. Hilbert-Wolf, S. E. Tindall, J. J. Bernard, and W. S. Simpson	Geology	Journal Article	
Elsevier	Palaeo 270, 2008 p.19-28	<i>The interaction of aeolian and fluvial processes during deposition of the Upper Cretaceous capping sandstone member, Wahweap Formation, Kaiparowits Basin, Utah, U.S.A.</i>	Simpson, Edward L., H. L. Hilbert-Wolf, W. S. Simpson, S. E. Tindall, T.A. Bernard, J.J. Jenesky, M. C. Wizevich	Geology	Journal Article	
Geological Society of America	Geology v.38, n.08, p.699-702, doi:10.1130/G31019.1; 3 figures YEAR???	<i>Predatory digging behavior by dinosaurs</i>	Simpson, Edward L., Hannah L. Hilbert-Wolf, Michael C. Wizevich, Sarah E. Tindall, Ben R. Fasinski, Lauren P. Storm, Mattathias D. Needle	Geology	Journal Article	
New Mexico Museum of Natural History and Science	in Lucas, Milan J., M. G. Lockley, & J. A. Spielmann, editors, Crocodile tracks and traces, Bulletin 51, 2010	<i>A Crocodylomorph track in the Upper Cretaceous capping sandstone member of the Wahweap Formation, Grand Staircase-Escalante National Monument, Utah. U.S.A.</i>	Simpson, Edward L., Hannah L. Hilbert-Wolf, Micheal C. Wizevich, Spencer G. Lucas, Edward Tester, Sarah E. Tindall, Johathan J. Bernard	Geology	Book/Chapter	

Elsevier	Sedimentary Geology 230, 139-145, 2010	<i>A preserved Late Cretaceous biological soil crust in the capping sandstone member, Wahweap Formation, Grand Staircase-Escalante National Monument, Utah: Paleoclimatic implications</i>	Simpson, W. S., E. L. Simpson, M. C. Wizevich, H. F. Malenda, H. L. Hilbert-Wolf, S. E. Tindall	Geology	Journal Article	
Astrobiology at NASA	Astrobiology v.6, n.4, 2006, p.527-545	<i>Ultrastructural Study of Iron Oxide Precipitates: Implications for the Search for Biosignatures in the Meridiani Hematite Concretions, Mars</i>	Souza-Egipsy, Virginia, Jens Orno, Brenda Beitler Bowen, Marjorie A. Chan, and Goro Komatsu	Geology	Journal Article	
Intermountain Association of Petroleum Geologists Annual Conference, 5th, 1954	Guidebook p.99-102	<i>Geology of Circle Cliffs anticline. in Geology of portions of the hlgIt plateaus and adjacent lands, central and south-central Utah</i>	Steed, R.H	Geology	Conference Proceedings/ Professional Papers	Yes
		<i>Paleomagnetic, structural, and seismological evidence for oblique-slip deformation in fault-related folds in the Rocky Mountain Foreland, Colorado Plateau, and central Coast Ranges</i>	Tetreault, Joya Liana, Masters Thesis, 2006	Geology	Thesis and Dissertations	
Utah Geological Survey	Utah Geological and Mineralogical Survey Bulletin 87, 1970	<i>Stratigraphy of the San Rafael Group, southwest and south-central Utah</i>	Thompson, A. E., and W. L. Stokes	Geology	Journal Article	

SEPM (Society for Sedimentary Geology)	SEPM Special Publication No.75, p.263-299, 2003	<i>Recognition of relative sea-level change in Upper Cretaceous coal-bearing strata: A paleoecological approach using agglutinated foraminifera and ostracodes to detect key stratigraphic surfaces</i>	Tilbert, Neil E., R. Mark Leckie, Jeffrey G. Eaton, James I. Kirkland, Jean-Paul Colin, Elana L. Leithold, and Michael E. McCormick	Geology	Journal Article	
Geological Society of America	Lithosphere v.2, n.4, p.221-231, 2010	<i>Growth faults in the Kaiparowits Basin, Utah, pinpoint initial Laramide deformation in the western Colorado Plateau</i>	Tindall, S. E., L. P. Storm, T. A. Jenesky, E. L. Simpson	Geology	Journal Article	
BLTN05-068-2, October, 2005		<i>Seismites: Records of Ancient Earthquake Activity - Jointed Deformation Bands May Not Compartmentalize Reservoirs</i>	Tindall, Sarah E.	Geology	Reports to GSENM	
Utah Geological Association	in Sprinkel, D.A., T. C. Chidsey, and P. B. Anderson, editors, Millenium Guidebook, Publication 28, 2000, p.629-643	<i>The Cockscomb Segment of the East Kaibab Monocline: Taking the Structural Plunge</i>	Tindall, Sarah E.	Geology	Book/Chapter	
Elsevier	Journal of Structural Geology, 21, 1999, 1303-1320	<i>Monocline development by oblique-slip fault-propagation folding: the East Kaibab monocline, Colorado Plateau, Utah</i>	Tindall, Sarah E., and G. H. Davis	Geology	Journal Article	
		<i>Development of Oblique-Slip Basement-Cored Uplifts: Insights from the Kaibab Uplift and from Physical Models</i>	Tindall, Sarah Elizabeth, Ph.D. Dissertation, 2000	Geology	Thesis and Dissertations	
Final Report, 1999		<i>The Morrison Formation Extinct Ecosystems Project</i>	Turner, Christine E., and Fred Peterson	Geology	Reports to GSENM	

Utah Geological Survey	Circular 93, UGS Survey Notes, v.29, n.3, p.1-3, May, 1997	<i>Energy and Mineral Resources within the Grand Staircase-Escalante National Monument</i>	UGS Staff	Geology	Journal Article	
Utah Geological Survey	Public Information Series 49, 1997	<i>Geologic Topographic map of the Grand Staircase-Escalante National Monument, Utah</i>	UGS Staff	Geology	Journal Article	
Utah Geological Survey	Public Information Series 64	<i>What is the Grand Staircase?</i>	UGS Staff	Geology	Journal Article	
Wiley Blackwell	Sedimentology, V46, P807-836 1999 International Association of Sedimentologists	<i>Sequence stratigraphy of the Dakota Formation (Cenomanian) southern Utah: interplay of eustasy and tectonics in a foreland basin</i>	Ulicny, David	Geology	Journal Article	
Geological Society of America	GSA Bulletin, V.78, p.353-368, 1967	<i>Formation of red beds in modern and ancient deserts</i>	Walker, T. R.	Geology	Journal Article	
Geological Society of America	Geology, v.40, n.8, p.747-750, August 2012	<i>Biosignatures link microorganisms to iron mineralization in a paleoaquifer</i>	Weber, Karrie A., Trisha L. Spanbauer, David Wacey, Matthew R. Kilburn, David B. Loope, and Richard M. Kettler	Geology	Journal Article	
		<i>Testing the Late Cretaceous Kaiparowits-Mesaverde Fluvial Connection: A detrital zircon U/PB geochronological and petrographic provenance approach</i>	Welle, Beth A., Master of Science Thesis, December 2008	Geology	Thesis and Dissertations	
Utah Geological Survey	UGS Survey Notes, v.35, n.9 p.1-3, Aug., 2003	<i>Geologic Mapping in Utah's Parks and Monuments</i>	Willis, Grant C., and Douglas A. Sprinkel	Geology	Journal Article	
		<i>Geology of the Plateau and Rim - part of the 1882 field season of Charles Doolittle Walcott, USGS geologist/paleontologist</i>	Yochelson, Ellis L.	Geology	Reports to GSENM	

Nature Publishing Group	Scientific Reports, Sept., 2015	<i>Early post-mortem formation of carbonate concretions around tusk-shells over week-month timescales</i>	Yoshida, Hidekazu, Atsushi Ujihara, Masayo Minami, Yoshihiro Asahara, Nagayoshi Katsuta, Koshi Yamamoto, Sin-iti Sirono, Ippei Maruyama, Shoji Nishimoto and Richard Metcalfe	Geology	Journal Article	
		<i>Natural Gamma-Ray Spectrometry, Lithofacies, and Depositional Environments of Selected Upper Cretaceous Marine Mudrocks, Western United States, Including Tropic Shale and tununk Member of Mancos Shale</i>	Zelt, Frederick Bruce, Doctor of Philosophy Dissertation, June, 1985	Geology	Thesis and Dissertations	
Kaiser Engineers	1977	<i>Utah Coal for Southwest Gas Markets: A New Concept for Utah Coal and a New Industry for the Kaiparowits Plateau</i>		Geology	Book/Chapter	Yes
Wiley Blackwell	Presidential Studies Quarterly, v.39, Issue 3, p.605-618, September, 2009	<i>The Law: Presidential Proclamation 6920: Using Executive Power to Set a New Direction for the Management of National Monuments</i>	Belco, Michelle, and Brandon Rottinghaus	Human History	Journal Article	
		<i>Support for Tourism Development in Gathway Communities to the Grand Staircase-Escalante National Monument</i>	Bloyer, Jerusha Marie, Master Thesis, Dept. of Parks, Recreation, and Tourism, 2002`	Human History	Thesis and Dissertations	

		<i>A Monumental Future: Evaluating the roles of federal agencies in managing new national monuments</i>	Brooks, Shaun, Master of Environmental Planning Thesis, Dec., 2004	Human History	Thesis and Dissertations	
		<i>Public Land and American Demographic Imaginaries: A Case Study of Conflict over the Management of Grand Staircase-Escalante National Monument</i>	Brugger, Julie V., PhD. Dissertation, 2009	Human History	Thesis and Dissertations	
December, 2000		<i>Recreationists' Relationships with a Newly Designated National Monument: A Comparison of Hunters and Hikers</i>	Brunson, Mark W.	Human History	Reports to GSENM	
Allen Press Publishing Services	Journal of Range Management J. Range Manage 56: 570-576 November 2003	<i>Recreationist responses to livestock grazing in a new national monument</i>	Brunson, Mark W., and Lael Gilbert	Human History	Journal Article	
IORT Professional Report PR2006-01, April, 2006		<i>A Front Country Visitor Study for Grand Staircase-Escalante National Monument</i>	Burr, Steven W., Dale J. Blahna, Doug Reiter, Erin C. Leary, and Nathan M. Wagoner	Human History	Reports to GSENM	
		<i>It's not just about the monument: Framing analysis reveals the multiple issues in the Grand Staircase-Escalante National Monument conflict</i>	Campbell, Jane Burleson, Master of Science, Thesis, May 2004	Human History	Thesis and Dissertations	
		<i>The Antiquities Act of 1906 and Theodore Roosevelt's "Interpretation of Executive Power" from the Grand Canyon through the Grand Staircase</i>	Chapin, Daniel, Bachelor of Arts Thesis, April, 2004	Human History	Thesis and Dissertations	

		<i>Kaiparowits: it may be your playground but it's my home</i>	Coppel, L., 1979	Human History	Thesis and Dissertations	
Dean and Associates Conservation Services, April, 1999		<i>Grand Staircase-Escalante National Monument: Report on the 1998 Graffiti Reintegration Project</i>	Dean, J. Claire, and John Griswold	Human History	Reports to GSENM	
April, 2010		<i>Georgetown Cemetary, Utah (Pioneer cemetary on the monument)</i>	Dodds, Jason	Human History	Reports to GSENM	
HeinOnLine	Brigham Young University Law Revue, 67, 2010	<i>Protecting Public Lands from the Public: Kane County and Revised Statute 2477</i>	Farr, D. P.	Human History	Journal Article	
Northern Arizona University		<i>Grand Staircase-Escalante National Monument - From Recreation Impact Inventory to Monitoring - What has changed in the Backcountry and Dispersed Areas?</i>	Foti, Pam	Human History	Reports to GSENM	
HeinOnLine	Virginia Environmental Law Journal, v.17, p.477-529, 1997-1998	<i>The Grand Staircase-Escalante National Monument: A Case Study in Western Land Management</i>	Fried, Janice	Human History	Journal Article	
GSENM	January, 2003	<i>Visitor Center Interpretive Summary, Big Water, Cannonville, Escalante, Glendale, and Kanab</i>	GSENM	Human History	Reports to GSENM	
HeinOnLine	Fordham Environmental Law Journal, v.VIII, p.713-739, 1997	<i>The Grand Staircase-Escalante National Monument and the Antiquities Act</i>	Halden, Ann E.	Human History	Journal Article	
HeinOnLine	Journal of Environmental Law and Litigation, v.13, p.409-444, 1998	<i>Legislative Delegation and Presidential Authority: The Antiquities Act and the Grand Staircase-Escalante National Monument - A Call for a New Judicial Examination</i>	Harrison, Matthew W.	Human History	Journal Article	

HeinOnLine	Brigham Young University Journal of Public Law, v.XVI, p.37-68, 2001	<i>Multiple Use Policies in the Grand Staircase-Escalante National Monument: Is Clinton's Promise Legitimate or Mere Political Rhetoric?</i>	Heideman, Cynthia	Human History	Journal Article	
Southern Utah Oral History Project: Monument History Segment 2010		<i>(Oral History Project Overview)</i>	Holland, Marsha	Human History	Reports to GSENM	
HeinOnLine	Journal of Land Resources and Environmental Law, V.21, p.521-533, 2001	<i>The Monument, the Plan, and Beyond</i>	Keiter, Robert B.	Human History	Journal Article	
HeinOnLine	Journal of Land Resources and Environmental Law, V.19, p.326-344, 1999	<i>The 1998 Utah Schools and Lands Exchange Act: Project BOLD II</i>	Keith, J. M.	Human History	Journal Article	
		<i>Crowding Expectations, Perceptions, and Use Distribution of Front Country Visitors to the Grand Staircase-Escalante National Monument</i>	Leary, Erin C., Master of Science Thesis, 2005	Human History	Thesis and Dissertations	
Nova Publishers, New York	in Smith, Johnson B., editor, National Parks, Sustainable Development, Conservation Strategies and Environmental Impacts, Chapter 6, p.179- 199, 2013	<i>Land as Sustenance and Sanctuary: Settlement History and Resource Use in and around Utah's Grand Staircase Escalante National Monument</i>	Lilieholm, Robert J., and Marietta Eaton	Human History	Book/Chapte r	
HeinOnLine	Ecology Law Quarterly, v.29, p.707-746, 2002	<i>Clinton's National Monuments: A Democrat's Undemocratic Acts?</i>	Lin, Albert C.	Human History	Journal Article	
		<i>Protected Landscapes and Multiple Use: BLM'S National Monuments and Conservation System</i>	Nero, Heath Alan, Master of Science Thesis, April, 2009	Human History	Thesis and Dissertations	

Arizona State University, School of Community Resources and Development	Technical Report, 2013	<i>Linking Communities and Public Lands through Tourism: A Pilot Project</i>	Nyaupane, Gyan P., Dallen J. Timothy	Human History	Book/Chapter	
		<i>Recreation, Livestock Grazing, and Protected Resource Values in the Grand Staircase-Escalante National Monument</i>	Palmer, Lael, Master of Science Thesis, 2001	Human History	Thesis and Dissertations	
HeinOnLine	Duke Environmental Law & Policy Forum, v.142, p.313-324, 2004	<i>Natural Resources Policy Under the Bush Administration: Not what it says, but what it has done in court</i>	Pendley, William Perry	Human History	Journal Article	
Springer www.springer.com	Human Ecology, An Interdisciplinary Journal, Vol.40, No.6, December, 2012	<i>"With the Stroke of a Pen": Designation of the Grand Staircase Escalante National Monument and the Impact on Trust</i>	Petrzelka, Peggy, & Sandra Marquart- Pyatt	Human History	Journal Article	
HeinOnLine	Journal of Land Resources and Environmental Law, v.19, p.55-101, 1999	<i>Grand Staircase-Escalante National Monument: Preservation or Politics?</i>	Quigley, Justin James	Human History	Journal Article	
HeinOnLine	Journal of Land Resources and Environmental Law, v.21, p.619-634, 2001	<i>The Future of the Antiquities Act</i>	Rasband, James R.	Human History	Journal Article	
University of Colorado	Univeristy of Colorado Law Review, Vol.70, 1999, p.483-562	<i>Utah's Grand Staircase: The Right Path to Wilderness Preservation?</i>	Rasband, James R.	Human History	Journal Article	
		<i>Exploring Knowledge, Attitudes and Reported Behavior of Southern Utah Back-Country Recreationists</i>	Ruehrwein, R. Joseph, Master of Science Thesis, 1998	Human History	Thesis and Dissertations	

HeinOnLine	Ohio State Law Journal, v.64, p.669-730, 2003	<i>The Straw that Broke the Camel's Back? Grand Staircase-Escalante National Monument Antiquates the Antiquities Act</i>	Rusnak, Eric C.	Human History	Journal Article	
Third Biennial CConference of Research on the Colorado Plateau, 17 October, 1995 - Technical Report NPS/NAUCPRS/NRTR- 96/10, May, 1996		<i>Research and Information Needs to Support Natural Resource Management on the Colorado Plateau: A Report from Client Day</i>	Souder, Jon A., and Elizabeth L. Taylor	Human History	Reports to GSENM	
		<i>Elementary Environmental Education Curricula for the Grand Staircase-Escalante National Monument</i>	Sowards, Rachel H., Master of Recreation Resource Management Report, 2006	Human History	Thesis and Dissertations	
October, 2010		<i>Preliminary Survey Results of the Summer Season Central/Southern Utah Visitor Profile Study</i>	Steed, Emmett	Human History	Reports to GSENM	
Results of Research Cooperative Agreement No. Task Order #22, May, 1999		<i>Mapping Special Places on Public Lands in Southern Utah: Results of the 1996 Dixie National Forest Community Survey</i>	Sullivan, Mark, Dale J. Blahna, Nancy Brunswick, Barbara Sharrow	Human History	Reports to GSENM	
University of Utah - S. J. Quincy College of Law	Journal of Land, Resources, and Environmental Law, V.28, N.2, 2008 Editor-in- chief, Steven Anderson, steven.anderson@law.utah. edu	<i>Finding Common Ground: Moral Values and Cultural Identity in Early Conflict over the Grand Staircase- Escalante National Monument</i>	Trainor, Sarah F.	Human History	Journal Article	
		<i>Conflicting Values, Contested Terrain: Mormon, Paiute and Wilderness Advocate Values of the Grand Staircase-Escalante National Monument</i>	Trainor, Sarah Fleisher, PH.D. Dissertation, Fall, 2002	Human History	Thesis and Dissertations	

	Sonoran Institute www.sonoraninstitute.org	<i>Grand Staircase-Escalante National Monument Walk through 100 million years</i>		Human History	Journal Article	
	Sonoran Institute www.sonoraninstitute.org	<i>Preserving Canyon Country Case Study: Grand Staircase-Escalante National Monument</i>		Human History	Journal Article	
Taylor and Francis	Journal of Systematic Paleontology, 2015	<i>Baenid turtles of the Kaiparowits Formation (Upper Cretaceous: Campanian) of southern Utah, USA</i>	Lively, Joshua R.	Paleontology - On disk	Journal Article	
Geological Society of America	GSA Abstracts with Programs, 1987 Annual Meeting, Vol.19, p.622	<i>A new mammoth discovery from Pleistocene stratified sediments in a tributary to the Escalante River, southeastern Utah</i>	Cluer, B. L., L. T. Agenbroad and J. I. Mead	Paleontology	Conference Proceedings/ Professional Papers	
Museum of Northern Arizona	<i>In Aspects of Mesozoic Geology and Paleontology of the Colorado Plateau.</i> M. Morales, ed. . Museum of Northern Arizona Bulletin S9. p. 129-1S2. (1993)	<i>Cretaceous Paleogeography of the Colorado Plateau and Adjacent Area</i>	Elder, W.P. and J.I. Kirkland	Paleontology	Journal Article	Yes
Utah Geological Association	in Sprinkel, Douglas A., Thomas C. Chidsey, and Paul B. Anderson, editors, Geology of Utah's Parks and Monuments, Utah Geological Association Publication, p.579-589, 2000	<i>Inventory of dominantly marine and brackish-water fossils from Late Cretaceous rocks in and near Grand Staircase-Escalante National Monument, Utah</i>	Gobban, William A., Thaddeus S. Dyman, Gayle L. Pollock, Kenneth I. Takahashi, Larry E. Davis, and Dennis B. Riggan	Paleontology	Book/Chapter	
	PalArche's Journal of Vertebrate Paleontology, 7(2): 1-7	<i>Hadrosaurid dinosaur skin impressions from the Upper Cretaceous Kaiparowits Formation of Southern Utah, USA</i>	Herrero, L., and A. F. Farke	Paleontology	Journal Article	

National Science Museum Monographs, Tokyo	in Advances in Vertebrate Paleontology and Geochronology, 14, 1998	<i>A new genus and species of Cretaceous polyglyphanodontine lizard (Squamata, Teiidae) from the Kaiparowits Plateau, Utah</i>	McCord, R. D.	Paleontology	Book/Chapter	
6th Conference on Fossil Resources 2001		<i>Specialist-driven long-term interdisciplinary efforts in Grand Staircase-Escalante National Monument: A model for resource inventory</i>	Titus, A. L., S. D. Sampson, D. D. Gillette, and J. L. Kirkland	Paleontology	Conference Proceedings/ Professional Papers	
The Society of Vertebrate Paleontology	Journal of Vertebrate Paleontology 27(1):31-40, March 2007	<i>Plesiosaurs From the Upper Cretaceous (Cenomanian-Turonian) Tropic Shale of Southern Utah, Part 1: New records of the Pliosaur Brachauchenius Locasi</i>	Albright III, L. Barry, David D. Gillette, Alan L. Titus	Paleontology	Journal Article	
The Society of Vertebrate Paleontology 2007	Journal of Vertebrate Paleontology 27(1):41-58, March 2007	<i>Plesiosaurs From the Upper Cretaceous (Cenomanian-Turonian) Tropic Shale of Southern Utah, Part 2: Polycotylidae</i>	Albright III, L. Barry, David D. Gillette, and Alan L. Titus	Paleontology	Journal Article	
Springer www.springer.com	Naturwissenschaften 2011, 98(3):241-2446 DOI:10.1007/s00114-011-0762-7	<i>Evidence for high taxonomic and morphologic tyrannosauroid diversity in the Late Cretaceous (Late Campanian) of the American Southwest and a new short-skulled tyrannosaurid from the Kaiparowits formation of Utah</i>	Carr, Thomas D., Thomas E. Williamson, Brooks B. Britt, and Ken Stadtman	Paleontology	Journal Article	
Use Permit UT 0714S, Annual Report, August, 2007		<i>Annual Report on Field Work Conducted under Bureau of Land Management Paleontological Resources Use Permit UT 0714S</i>	Chiappe, Luis M.	Paleontology	Reports to GSENM	
ASM American Society of Mammalogists www.mammalsociety.org	Journal of Mammalogy 71:342-350, 1990	<i>A primitive higher mammal from the Late Cretaceous of southern Utah</i>	Cifelli, R. L.	Paleontology	Journal Article	

The Society of Vertebrate Paleontology www.vertpaleo.org	Journal of Vertebrate Paleontology 10:332-345, 1990	<i>Cretaceous Mammals of Southern Utah. III. Therian Mammals from the Turonian (Early Late Cretaceous)</i>	Cifelli, R. L.	Paleontology	Journal Article	
The Society of Vertebrate Paleontology www.vertpaleo.org	Journal of Vertebrate Paleontology 10:346-360, 1990	<i>Cretaceous Mammals of Southern Utah. IV. Eutherian Mammals from the Wahweap (Aquilan) and Kaiparowits (Judithian) Formations</i>	Cifelli, R. L.	Paleontology	Journal Article	
The Society of Vertebrate Paleontology www.vertpaleo.org	Journal of Vertebrate Paleontology 10:320-331, 1990	<i>Cretaceous Mammals of Southern Utah. II. Marsupials and Marsupial-like Mammals from the Wahweap Formation (Early Campanian)</i>	Cifelli, R. L.	Paleontology	Journal Article	
The Society of Vertebrate Paleontology www.vertpaleo.org	Journal of Vertebrate Paleontology 10:295-319, 1990	<i>Cretaceous Mammals of Southern Utah. I. Marsupials from the Kaiparowits Formation (Judithian)</i>	Cifelli, R. L.	Paleontology	Journal Article	
The Society of Vertebrate Paleontology www.vertpaleo.org	Journal of Vertebrate Paleontology 14:292-295, 1994	<i>New Marsupial from the Upper Cretaceous of Utah</i>	Cifelli, R. L., and Z. Johanson	Paleontology	Journal Article	
Brigham Young University	Geology Studies, 44:1/16, 1999	<i>Symmetrodonts from the Late Cretaceous of southern Utah, and comments on the distribution of archaic mammalian lineages persisting into the Cretaceous of North America</i>	Cifelli, R. L., C. L. Gordon	Paleontology	Journal Article	
Macmillan Journals, Ltd.	Nature, v.325, n.6104, p.520-522, Feb. 5, 1987	<i>Marsupial from the earliest Late Cretaceous of Western US</i>	Cifelli, Richard L., and Jeffrey G. Eaton	Paleontology	Journal Article	
The Society of Vertebrate Paleontology www.vertpaleo.org	Journal of Vertebrate Paleontology 59:1091-1099, 1985	<i>A specimen of Ornithomimus velox (Theropoda, Ornithomimidae) from the terminal Cretaceous Kaiparowits Formation of southern Utah</i>	DeCourten, F. L., and D. A. Russell	Paleontology	Journal Article	

The Society of Vertebrate Paleontology www.vertpaleo.org	Journal of Vertebrate Paleontology 15:761-784, 1995	<i>Cenomanian and Turonian (early Late Cretaceous) multituberculate mammals from southwestern Utah</i>	Eaton, J. G.	Paleontology	Journal Article	
Utah Geological Survey	in Gillette, D. G., editor, Vertebrate paleontology in Utah; Utah Geological Survey Miscellaneous Publication 99-1, p.345-353, 1999	<i>Cretaceous vertebrate faunas from the Kaiparowits Plateau, south-central Utah</i>	Eaton, J. G., R. L. Cifelli, J. H. Hutchison, J. I. Kirkland, and J. M. Parrish	Paleontology	Book/Chapter	
Geological Society of America	Rocky Mountain - 54th Annual Meeting, Session No. 2, May 7-9, 2002	<i>Multituberculate Mammals from the Wahweap (Campanian, Aquilan) and Kaiparowits (Campanian, Judithian) Formations, Grand Staircase-Escalante National Monument, Southern Utah, and Implications for Biostratigraphic Methods</i>	Eaton, Jeffrey G.	Paleontology	Conference Proceedings/ Professional Papers	
Geological Society of America	GSA Abstracts with Programs, Vol. 37, No. 7, P.115, Salt Lake City Annual Meeting, Session No. 8, Paper 48-5, October 16-19, 2005	<i>Review of Cretaceous Mammalian Paleontology: Grand Staircase-Escalante National Monument, Utah</i>	Eaton, Jeffrey G.	Paleontology	Conference Proceedings/ Professional Papers	
Geological Society of America	GSA Abstracts with Programs, Vol. 37, No. 6, P.45, Rocky Mountain Section, 57th Annual Meeting, Session No. 19, Paper No. 19-8, May 23-25, 2005	<i>Santonian Mammals from Southern Utah and Implications for the Aquilan Land Mammal "Age"</i>	Eaton, Jeffrey G.	Paleontology	Conference Proceedings/ Professional Papers	

Geological Society of America	in Nations, J.D. and Eaton, J.G., editors, Stratigraphy, depositional environments, and sedimentary tectonics of the western margin, Cretaceous Western Interior Seaway, Geological Society of America Special Paper 260, 1991	<i>Biostratigraphic framework for the Upper Cretaceous rocks of the Kaiparowits Plateau, southern Utah</i>	Eaton, Jeffrey G.	Paleontology	Book/Chapter	
The Society of Vertebrate Paleontology www.vertpaleo.org	Journal of Vertebrate Paleontology 26(2): 446-460, June, 2006	<i>Santonian (Late Cretaceous) Mammals from the John Henry Member of the Straight Cliffs Formation, Grand Staircase-Escalante National Monument, Utah</i>	Eaton, Jeffrey G.	Paleontology	Journal Article	
Utah Geological Survey	Miscellaneous Publication, 02-4, 2002	<i>Multituberculate mammals from the Wahweap (Campanian, Aquilan) and Kaiparowits (Campanian, Judithian) formations, within and near Grand Staircase-Escalante National Monument, Southern Utah</i>	Eaton, Jeffrey G.	Paleontology	Journal Article	
Geological Society of America	Rocky Mountain 54th Annual Meeting, Session No. 2, May 7-9, 2002	<i>Vertebrate Track Sites in the Chinle Formation (Late Triassic) of the Circle Cliffs Area, Southern Utah</i>	Foster, John R.	Paleontology	Conference Proceedings/ Professional Papers	
Utah Geological Survey	Utah Geological Survey Special Study, 99, 2001	<i>Paleontological Survey of the Grand Staircase-Escalante National Monument, Garfield and Kane Counties, Utah</i>	Foster, John R., Alan A. Titus, Gustav F. Winterfield, Martha C. Hayden & Alden H. Hamblin	Paleontology	Journal Article	

Wiley Blackwell	Zoological Journal of the Linnean Society, 151:351-376, 2007	<i>A new species of Gryposaurus (Dinosauria: Hadrosauridae) from the Upper Campanian Kaiparowits Formation of Utah</i>	Gates, T. A., S. D. Sampson	Paleontology	Journal Article	
Elsevier	Paleo, v.291, Issues 3-4, May 15, 2010	<i>Biogeography of terrestrial and freshwater vertebrates from the Late Cretaceous (Campanian) Western Interior of North America</i>	Gates, T. A., S. D. Sampson, L. E. Zanno, E. M. Roberts, J. G. Eaton, R. L. Nydam, J. H. Hutchison, J. A. Smith, M. A. Loewen, M. A. Getty	Paleontology	Journal Article	
The Society of Vertebrate Paleontology www.vertpaleo.org	Journal of Vertebrate Paleontology, 2004	<i>Hadrosaurian dinosaur diversity from the Upper Campanian Kaiparowits Formation, southern Utah</i>	Gates, Terry A.	Paleontology	Conference Proceedings/ Professional Papers	
The Society of Vertebrate Paleontology www.vertpaleo.org	Journal of Vertebrate Paleontology 31(4): 798-811, July, 2011	<i>New Unadorned Hadrosaurine Hadrosaurid (Dinosauria, Ornithopoda) from the Campanian of North America</i>	Gates, Terry A., John R. Horner, Rebecca R. Hanna, C. Riley Nelson	Paleontology	Journal Article	
Geological Society of America	GSA Abstracts with Programs, Denver Annual Meeting, Session No. 237, Paper No. 237-3, October 27-30, 2002	<i>Paleontological Fieldwork in and around Utah's Grand Staircase-Escalante National Monument: logistical and environmental issues</i>	Getty, M. A., M. A. Loewen, S. D. Sampson, and A. L. Titus	Paleontology	Conference Proceedings/ Professional Papers	
The Society of Vertebrate Paleontology www.vertpaleo.org	Journal of Vertebrate Paleontology	<i>Taphonomy of chasmosaurine ceratopsian skeleton from the Campanian Kaiparowits Formation, Grand Staircase-Escalante National Monument, Utah</i>	Getty, Michael	Paleontology	Conference Proceedings/ Professional Papers	

Indiana University Press	In Ryan, M. J., B.J. Dhinnery-Allgeier, and D.A. Eberth, editors, New Perspectives on Horned Dinosaurs 2010	<i>Taphonomy of Horned Dinosaurs (Ornithischia-Ceratopsidae) from the Late Campanian, Kaiparowits Formation, Grand Staircase-Escalante National Monument, Utah</i>	Getty, Michael A., Mark A. Loewen, Eric Roberts, Alan A. Titus, Scott D. Sampson	Paleontology	Book/Chapter	
Utah Museum of Natural History		<i>Collection of Vertebrate Fossils and Associated Taphonomic Data from the Late Cretaceous Kaiparowits and Wahweap Formations, Grand Staircase-Escalante National Monument, Utah</i>	Getty, Mike A., Eric K. Lund, Mark A. Loewen, Eric M. Roberts, and Alan L. Titus	Paleontology	Reports to GSENM	
Geological Society of America	Rocky Mountain 54th Annual Meeting, Session No. 8, May 7-9, 2002	<i>Logistical Issues Surrounding Paleontological Fieldwork in Grand Staircase-Escalante National Monument, Southern Utah</i>	Getty, Mike A., Scott D. Sampson, Mark A. Loewen, and Terry A. Gates	Paleontology	Conference Proceedings/ Professional Papers	
Museum of Northern Arizona	Plateau, The Land and People of the Colorado Plateau, Therizinosaur, v.4, n.2, Fall, 2007	<i>The Mystery of the Sickle-Claw Dinosaur</i>	Gillette, David D.	Paleontology	Journal Article	
Utah Geological Survey	Public Information Series 96, 1997	<i>A Preliminary Inventory of paleontological resources within the Grand Staircase-Escalante National Monument, Utah</i>	Gillette, David D., and Martha C. Hayden	Paleontology	Journal Article	
Geological Society of America	Rocky Mountain 54th Annual Meeting, Session No. 2, May 7-9, 2002	<i>Discovery and Excavation of a Therizinosaurid Dinosaur from the Upper Cretaceous Tropic Shale (Early Turonian), Kane County, Utah</i>	Gillette, David D., L. Barry Albright, Alan L. Titus, and Merle H. Graffam	Paleontology	Conference Proceedings/ Professional Papers	

FY2001 Annual Performance Evaluation for Paleontological Work Conducted Under Federal Assistance Agreement JSA001014		<i>Patterns of Biodiversity, Extinction, and Origination of Mesozoic Vertebrates in Grand Staircase-Escalante National Monument</i>	Gillette, David D., Museum of Northern Arizona	Paleontology	Reports to GSENM	
Raymond M. Alf Museum of Paleontology	Peccary Society News, Spring 2005 (Quest)	<i>Peccary Memories from the Badlands</i>	Hinkle, Thea	Paleontology	Journal Article	
Geological Society of America	GSA Abstracts with Programs, Annual Meeting Rocky Mountain Section, p.A-12	<i>Late Cretaceous Freshwater Fish From Southern Utah with Empahsis on Fossils From Grand Staircase-Escalante National Monument</i>	Kirkland, J. I.	Paleontology	Conference Proceedings/ Professional Papers	
Indiana University Press	In Ryan, M. J., B.J. Dhinnery-Allgeier, and D.A. Eberth, editors, New Perspectives on Horned Dinosaurs 2010	<i>New centrosaurine ceratopsians from the Wahweap Formation, Grand Staircase-Escalante National Monument, southern Utah</i>	Kirkland, J. I., D. D. DeBlieux	Paleontology	Book/Chapter	
Utah Geological Survey	Survey Notes, v.33, n.1, Jan., 2001	<i>The Quest for New Dinosaurs at Grand Staircase-Escalante National Monument</i>	Kirkland, James I.	Paleontology	Journal Article	
Utah Geological Survey	Utah Geological Survey Survey Notes p.4-5, Sept. 2007 v.39, n.3	<i>New Horned Dinosaurs from the Wahweap Formation Grand Staircase-Escalante National Monument, Southern Utah</i>	Kirkland, James I., and Donald D. DeBlieux	Paleontology	Journal Article	
Indiana University Press	Dhinnery-Allgeier, and D.A. Eberth, editors, New Perspectives on Horned	<i>Ceratopsian Skulls from the Wahweap Formation (Middle Campanian), Grand Staircase-</i>	Kirkland, James I., Donald D. DeBlieux	Paleontology	Book/Chapter	

BLM Paleontological Resources Use Permit Final Report		<i>Paleontological Field Work conducted by the Utah Geological Survey in Grand Staircase-Escalante National Monument: Paleontological Reconnaissance Inventory Wahweap Formation, South-Central Kaiparowits Plateau, Kane County, Utah</i>	Kirkland, James I., Donald D. DeBlieux, and Martha C. Hayden	Paleontology	Reports to GSENM	
Indiana University Press	In Ryan, M. J., B.J. Dhinnery-Allgeier, and D.A. Eberth, editors, New Perspectives on Horned Dinosaurs 2010	<i>Elasmobranchs from Upper Cretaceous Freshwater Facies in Southern Utah</i>	Kirkland, James I., Jeffrey G. Eaton, and Donald B. Brinkman	Paleontology	Book/Chapter	
New Mexico Museum of natural History and Science	Bulletin No.14, 1998	<i>Cretaceous Dinosaurs of the Colorado Plateau</i>	Kirkland, James I., Spencer G. Lucas and John W. Estep	Paleontology	Journal Article	
Taylor and Francis	Ichnos, v.5, p.255-267, 1998	<i>Dinosaur tracks from the Carmel Formation, northeastern Utah - implications for Middle Jurassic paleoecology</i>	Lockley, M. G., A. P. Hunt, M. Paquette, S. A. Bilbey, and A. H. Hamblin	Paleontology	Journal Article	
Overseas Publishers Association	Ichnos, v.5, p.177-211, 1998	<i>A survey of Fossil Footprint Sites at Glen Canyon National Recreation Area (Western USA): A Case Study in Documentation of Trace Fossil Resources at a National Preserve</i>	Lockley, Martin G., Adrian P. Hunt, Christian Meyer, Emma C. Rainforth, and Rebecca J. Schultz	Paleontology	Journal Article	
New Mexico Museum of natural History and Science	New Mexico Museum of Natural History and Science Bulletin 37. The Triassic-Jurassic Terrestrial Transition.	<i>An Introduction to Thunderbird Footprints at the Flag Point Pictograph-Track Site: Preliminary Observations on Lower Jurassic Theropod Tracks from the Vermillion Cliffs Area, Southwestern Utah</i>	Lockley, Martin G., Gerard D. Gierlinski, Alan L. Titus and Barry Albright	Paleontology	Journal Article	

Raymond M. Alf Museum of Paleontology	Peccary Society News, Spring 2005 (Quest)	<i>Hatrosaurs and Helicopters: Summer Peccary of 2004</i>	Lofgren, Don	Paleontology	Journal Article	
Geological Society of America	GSA Abstracts with Programs, Annual Meeting Rocky Mountain Section, p.A-13	<i>Tracking dinosaurs using low-altitude aerial photography at the Twenty Mile Wash Dinosaur Tracksite</i>	Matthews, N. A., T. Noble, A. L. Titus, J. R. Foster, J. A. Smith and B. H. Breithaupt	Paleontology	Conference Proceedings/ Professional Papers	
New Mexico Museum of natural History and Science	New Mexico Museum of Natural History and Science Bulletin 34, 2006 America's Antiquities: 100 Years of Managing Fossils on Federal Lands	<i>The Application of Photogrammetry, Remote Sensing and Geographic Information Systems (GIS) to Fossil Resource Management</i>	Matthews, Neffra A., Tommy A. Noble, Brenth Breithaupt	Paleontology	Journal Article	
Project Report GS-UT-077, April, 2001 and May, 2002		<i>Photogrammetric Mapping of the Collett Wash Dinosaur Tracksite (GSENM)-(01-141)</i>	Matthews, Neffra, Barbara Campbell, Tom Noble, and Kathy Rohling	Paleontology	Reports to GSENM	
The Paleontological Society www.paleosoc.org	Journal of Paleontology, V.49, p.528-533, 1975	<i>Dichastopollenites reticulates, n. gen. et. Sp. Nov.-potential Cenomanian guide fossil from southern Utah and northeastern Arizona</i>	May, F. E.	Paleontology	Journal Article	
Elsevier	Cretaceous Research, 56, p.278-292, 2015	<i>Taphonomy of large marine vertebrates in the Upper Cretaceous (Cenomanian-Turonian) Tropic Shale of Southern Utah</i>	McKean, Rebecca L. Schmeisser, and David D. Gillette	Paleontology	Journal Article	
Utah Geological Survey	Vertebrate Paleontology in Utah, Miscellaneous Publication 99-1	<i>Polyglyphanodontinae (Squamata: Teiidae) from the Medial and Late Cretaceous: New Taxa from Utah, U.S.A. and Baja California del Norte, Mexico</i>	Nydam, Randall L.	Paleontology	Journal Article	

Society for the Study of Amphibians & Reptiles	Journal of Herpetology, Vol.41, No. 2, pp 211-219, 2007	<i>Teiid-Like Scincomorphan Lizards from the Late Cretaceous (Campanian) of southern Utah</i>	Nydam, Randall L., and Gina E. Voci	Paleontology	Journal Article	
The Paleontological Society www.paleosoc.org	Journal of Paleontology, V. 81, NO. 3, 2007	<i>New Taxa of Transversely-Toothed Lizards (Squamata: Scincomorpha) and new information on the evolutionary history of "Teiids"</i>	Nydam, Randall L., Jeffery G. Eaton, and Julia Sankey	Paleontology	Journal Article	
Society of Vertebrate Paleontology	Journal of Vertebrate Paleontology 29(3): 677-701, Sept, 2009	<i>The occurrence of Contogenys-Like Lizards in the Late Cretaceous and Early Tertiary of the Western Interior of the U.S.A.</i>	Nydam, Randall L., and Brandon M. Fitzpatrick	Paleontology	Journal Article	
Geological Society of America	GSA Abstracts with Programs, Annual Meeting, Rocky Mountain Section, v.34, n.5, 2002	<i>New evidence of dinosaurs and other vertebrates from the Upper Cretaceous Wahweap and Kaiparowits Formations, Grand Staircase-Escalante National Monument, southern Utah</i>	Sampson, S. D., M. A. Loewen, T. A. Gates, L. E. Zanno, and J. I. Kirkland	Paleontology	Conference Proceedings/ Professional Papers	
	PLoS ONE, 5(9): e 12292, 2010	<i>New Horned Dinosaurs from Utah Provide Evidence for Intracontinental Endism</i>	Sampson, Scott D., Mark A. Loewen, Andrew A. Farke, Eric M. Roberts, Catherine A. Forster, Joshua A. Smith, Alan L. Titus	Paleontology	Journal Article	
NSF Award Number: DEB-9904045 - (9/1/99-9/1/05), Results from prior NSF support		<i>Osteology and Phylogeny of Basal Theropod Dinosaurs</i>	Sampson, Scott D., and Matthew T. Carrano	Paleontology	Reports to GSENM	
SEPM (Society for Sedimentary Geology)	Palaios, v.24, p.453-459, 2009	<i>Unusual Occurrence of Gastroliths in a Polycotylid Plesiosaur from the Upper Cretaceous Tropic Shale, Southern Utah</i>	Schmeisser, Rebecca L., and David D. Gillette	Paleontology	Journal Article	

American Association for the Advancement of Science	Science, vol.294, October, 2001	<i>Utah's Fossil Trove Beckons, and Tests, Researchers</i>	Stokstad, Eric	Paleontology	Journal Article	
Geological Society of America	GSA Abstracts with Programs, Annual Meeting Rocky Mountain Section, p.A-13	<i>Late Cenomanian (Late Cretaceous Sciponoceras gracile Biozone) paleogeographic evolution of the Grand Staircase-Escalante National Monument region: Implications of recent advances in high-resolution ammonoid biostratigraphy</i>	Titus, A. L.	Paleontology	Conference Proceedings/ Professional Papers	
The Society of Vertebrate Paleontology www.vertpaleo.org	Journal of Vertebrate Paleontology 21 (3 Supp), 2001	<i>Significance of an articulated lambeosaurine hadrosaur from the Kaiparowits Formation (Upper Formation), southern Utah</i>	Titus, Alan L., David D. Gillette, and Larry B. Albright	Paleontology	Journal Article	
Geological Society of America	in Pederson, J. and C. M. Dehler, editors, Interior Western United States: Geological Society of America Field Guide 6, p.101-128, 2005, DOI: 10.1130/2005.fld006(05)	<i>Late Cretaceous stratigraphy, depositional environments, and macrovertebrate paleontology of the Kaiparowits Plateau, Grand Staircase-Escalante National Monument, Utah</i>	Titus, Alan L., John D. Powell, Eric M. Roberts, Scott D. Sampson, Stonnie L. Pollock, James I. Kirkland, L. Barry Albright	Paleontology	Book/Chapter	
Geological Society of America	GSA Abstracts with Programs, vol.38, no.7, p.555, 2006	<i>The First Record of Cenomanian (Late Cretaceous) Insect Body Fossils from the Kaiparowits Basin, Northern Arizona</i>	Titus, Alan L., L. Barry Albright III, and Richard S. Barclay	Paleontology	Conference Proceedings/ Professional Papers	
		<i>The First Record of Cenomanian (Late Cretaceous) Insect Body Fossils from the Kaiparowits Basin, Northern Arizona</i>	Titus, Alan L., L. Barry Albright III, and Richard S. Barclay	Paleontology	Conference Proceedings/ Professional Papers	
Utah Geological Survey	Survey Notes, v.33, n.1, Jan., 2001	<i>A Pictorial Essay of Fossil Life in the Grand Staircase-Escalante National Monument Unveiled</i>	UGS Staff	Paleontology	Journal Article	

Utah Museum of Natural history, assistance agreement JSA071004, 2007 Annual Report		<i>BLM Sponsored Paleontological Activities in Grand Staircase-Escalante National Monument</i>	Utah Museum of Natural History	Paleontology	Reports to GSENM	
The Society of Verbebrate Paleontology www.vertpaleo.org	Journal of Vertebrate Paleontology, 25(4):897-904, 2005	<i>A new oviraptorosaur (Theropoda: Maniraptora) from the Late Campanian of Utah and the status of the North American Oviraptorosauria</i>	Zanno, L. E., and S. D. Sampson	Paleontology	Journal Article	
Proceedings of the Royal Society Britany	Proc. R. Soc. B. (2009) 276, 3505-3511	<i>A new North American therizinosaurid and the role of herbivory in 'predatory' dinosaur evolution</i>	Zanno, Lindsay E., David D. Gillette, L. Barry Albright, and Alan L. Titus	Paleontology	Journal Article	
Geological Society of America	GSA Abstracts with Programs, Annual Meeting Rocky Mountain Section, 37(7): 115A, 2005	<i>Dinosaur diversity and biogeographical implications of the Kaiparowits Formation (Late Campanian), Grand Staircase-Escalante National Monument, southern Utah</i>	Zanno, Lindsay E., Terry A. Gates, Scott D. Sampson, Joshua A. Smith, and Mike A. Getty	Paleontology	Conference Proceedings/ Professional Papers	

**List of Historic and Scientific Objects of Interest
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**Grand Staircase-Escalante National Monument List of Historic and Scientific
Objects**

Object	Description	Location	Source
Objects of Geologic Interest	Perennial streams enter entrenched canyons in white Navajo and deep-red Windgate Sandstone. Deer Creek, Steep Creek, and The Gulch have perennial flows of clear, cold water. The Gulch leads up into the spectacular Circle Cliffs where remarkable specimens of petrified wood (60 ft logs) exist in the Morrison and Chinle formations.	Escalante - Stepp Creek WSA	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	White Canyon cuts through the Kaibab Limestone to the Coconino Sandstone, the oldest stratum in the Upper Escalante drainage	Escalante-Studhorse Peaks Unit	Davidson, E.S., Geology of the Circle Cliffs Area, Garfield and Kane Counties, Utah, 1967. p.
Objects of Geologic Interest	Big Spencer Flat Road and V Road is site of "thunderball" iron concretions known as Moqui Marbles. These oddities weather out of the Navajo sandstone and are a popular recreation feature.	North Escalante Canyons WSA	Sargent, K.A., Environmental Geologic Studies of the Kaiparowits Coal-Basin, Utah. P. 16, and UT
Objects of Geologic Interest	The Waterpocket Fold tops out at Deer Point (7,243 feet). Most of the Waterpocket Fold is in the Capitol Reef National Park where it is a major landmark.	Escalante-Cold Mesa unit	Utah Wilderness Coalition. Wilderness at the Edge. P. 189, and Davidson, E.S., Geology of the Circle Cliffs Area, Garfield and Kane
Objects of Geologic Interest	The inner gorges of the Upper Moody Canyons cut into the relatively harder Kaibab Limestone and Coconino Sandstone (oldest exposed layer in this region).	Escalante-Cold Mesa unit	Utah Wilderness Coalition. Wilderness at the Edge. P. 189

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Object	Description	Location	Source
Objects of Geologic Interest	Dry Valley Creek Canyon: A waterfall blocks the entrance to Dry Valley Creek Canyon and consequently, the canyon remains in its natural condition. A perennial stream cuts through alluvial benches. It is a relict and probably possesses important scientific values.	Mud Springs Canyon WSA	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	The East Kaibab Monocline or the Cockscomb is unique as a Colorado Plateau structure. Its alignment with the Paunsaugant, Sevier, and Hurricane faults suggest that it too could be a fault at depth. It extends from the Colorado River north to Canaan Peak and is a major landmark.	Kaiparowits Plateau - The Cockscomb WSA	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	The Blues - a Cretaceous shale badlands, richly colored and contrasting with adjacent pink sandstone cliffs that forms a significant part of the vista for visitors to Bryce Canyon National Park. The Kaiparowits formation is well exposed here represents an accumulation of exceedingly rapid proportions and an immature sedimentary region which is not well displayed in any other formation in the Colorado Plateau.	The Blues WSA (near Bryce Canyon)	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Fiftymile Mountain is a complex of deep canyons, upwarps, monoclines, hogbacks and a spectacular 42-mile long Straight Cliffs wall, topping a thousand-foot-high cliff line of the Summerville, Morrison and Dakota formations. This complex marks the edge of the Kaiparowits Plateau.	Kaiparowits Plateau - Fiftymile Mountain WSA	UT BLM Statewide Final Wilderness EIS, 1990

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Object	Description	Location	Source
Objects of Geologic Interest	Ancient coal fires of Right Hand Collet Canyon have left surface remains in the form of clinkers and deep red ash. These remains dominate the visual character of the drainage.	Carcass Canyon WSA	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Arch Span of 40 feet located in Calf Canyon, and is visible from the Alvey Wash road.	Carcass Canyon WSA	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Burning Hills - naturally occurring underground coal fires have turned steep and rugged exposed hilltops a distinctive red.	Burning Hills WSA	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Devils Garden - oddly shaped arches (including Metate Arch) and rock formations in the hills at the foot of the cliffs marking the Kaiparowits Plateau.	Carcass Canyon WSA	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	This area possesses exceptional scenic values and contains a portion of the Cockscomb, a prominent southern Utah geologic feature. The Cockscomb forms 2 parallel knife-edged ridges with a bisection V-shaped trough. Flatirons, small monoliths, and other colorful formations are present on the west ridge. These major features of south central Utah cover over 4,000 acres.	Mud Spring WSA	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	An interesting fold in Henrieville Creek along the northwest boundary of the WSA is of geologic interest and a sightseeing attraction.	Mud Spring WSA	UT BLM Statewide Final Wilderness EIS, 1990

**List of Historic and Scientific Objects of Interest
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Object	Description	Location	Source
Objects of Geologic Interest	Window Wind Arch above the middle trail has scenic value because of its location on the very edge of the Straight Cliffs. The Straight Cliffs escarpment is major landmark in south-central Utah and an important scenic feature within view from the Hole-in-the-Rock road. Woolsey Arch is located in Rock Creek Basin, an area of colorful Navajo sandstone and high cliffs.	Fifty Mile Mountain WSA	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Unique because it consists of 2 prominent southern Utah physiographic systems. It includes the eastern most extension of the White Cliffs component of the famous ascending staircase, cliff and terrace physiography, the Vermillion, White, and Pink Cliffs; and east of the Paria river, the dividing point is the landscape representative of the Glen Canyon physiography of sculptured, dissected, and exposed Navajo sandstone . The area where these merge between Deer Range and Rock Springs Bench is a highly scenic complex and colorful landscape.	Paria-Hackberry WSA	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	The Vermillion Cliffs with its associated Wingate Sandstone cliffs, colorful Chinle badlands, and canyons with there multiple colors and the intensity of coloration contribute to high scenic quality. Included in this landscape are Hackberry Canyon, Paria River Valley, Hogeye Canyon, the Pilot Ridge-Starlight Canyon-Kirbys Point area and Eight Mile Pass.	Paria-Hackberry WSA.	UT BLM Statewide Final Wilderness EIS, 1990

**List of Historic and Scientific Objects of Interest
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Object	Description	Location	Source
Objects of Geologic Interest	An area of high scenic value include the breaks of the Rush Beds and the west wall of Cottonwood Canyon, upper tributaries to Hackberry Canyon, Death Valley Draw, and the exceptional Navajo Sandstone domes and fin formations on either side of lower Hackberry Canyon.	Paria-Hackberry WSA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Four ONA's designated to preserve "unique scenic values and natural wonders". North Escalante Canyon (5,800 acres), The Gulch (3,430), Escalante Canyons (480 acres), Phipps-Death Hollow (12 more outside WSA)	North Escalante Canyons WSA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	This area is geologically complex and has some of the most outstanding canyon scenery in the country. Harris Wash a canyon of the classic Escalante River drainage canyon form with many entrenched meanders in the Navajo Sandstone.	North Escalante Canyons WSA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	A unique feature of the Burning Hills is the red coloration in the landscape is the result of geological changes attributed to the naturally occurring coal fires. The coloration creates a highly scenic area.	Burning Hills WSA	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	The White Cliffs are high white or yellow cliffs of Navajo Sandstone. Vary in height from 600' at Deer Springs Point bench to 1,200' at Deer Springs Point and the Sheep Creek-Bull Valley Gorge-Paria River confluence. The cliffs consistently reach a 1000' in height and the cliff line is interrupted by 8 canyons.	Paria-Hackberry WSA.	UT BLM Statewide Final Wilderness EIS, 1990

**List of Historic and Scientific Objects of Interest
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Object	Description	Location	Source
Objects of Geologic Interest	This area contains twenty-four undeveloped springs. Ten are located in upper Paria, 6 in Hackberry, 5 on the eastern border of Cottonwood Creek, and 3 on west boundary. There are also 6 developed springs. These are significant features in this arid environment.	Paria-Hackberry WSA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Phipps-Death Hollow ONA {12/23/70) contains 34,288 acres managed to preserve scenic values and natural wonders.	Phipps-Death Hollow WSA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Arches. Peek-a-boo Rock, Wahweap Window, Jacob Hamblin Arch, Starlight Arch, Cobra Arch, Sam Pollack Arch, Woolsey Arch, and several more unnamed arches and natural bridges.	Kaiparowits Plateau and adjacent areas	Sargent, K.A., Environmental Geologic Studies of the Kaiparowits Coal-Basin, Utah.
Objects of Geologic Interest	Sand-calcite crystals from the Morrison Formation. These crystals are the first reported occurrence from rocks of Jurassic age and only reported sand crystals in southern Utah.	Kaiparowits Plateau	Sargent, K.A., Environmental Geologic Studies of the Kaiparowits Coal-Basin, Utah.
Objects of Geologic Interest	Circle Cliffs in the northeast portion of WSA features intensively colored red, orange, and purple Chinle mounds and ledges at the base of Wingate Sandstone cliffs. Vertically jointed cliffs banded with red, yellow, and white colors and bench tops and upper cliff faces possess innumerable orange-red Kayenta Sandstone knobs. One of most spectacular and distinctive landscapes on the Colorado Plateau.	Steep Creek WSA.	UT BLM Statewide Final Wilderness EIS, 1990

**List of Historic and Scientific Objects of Interest
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Object	Description	Location	Source
Objects of Geologic Interest	Area includes Escalante Natural Bridge (130' high, 100 ' span) and 4 other natural bridges and arches.	Phipps-Death Hollow WSA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	The Gulch is a major geologic feature. Deeply entrenched very sheer red straight line Wingate Sandstone walls. High ridges and slickrock peaks. Ridges drop fairly abruptly to canyons below.	Steep Creek WSA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Lamanite Natural Bridge. Actually a large arch with good symmetry and form. Located in an impressive setting in a deep side canyon to The Gulch.	Steep Creek WSA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Petrified wood. Upper Gulch-Circle Cliffs contains large, unbroken logs of petrified wood (NEA 2,213 acres). Maximum log length 36'. The scenic values of these logs is enhanced by their colorful surroundings.	Steep Creek WSA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Outstanding scenic values include the upper portion of Paradise Canyon where sandstone in the Wahweap Formation outcrops as colorful walls and cliffs. Ponderosa pine growing in the sandstone enhance the scenic values. Two sandstone monoliths or fins above Alvey Wash are prominent geological features.	Death Ridge WSA.	UT BLM Statewide Final Wilderness EIS, 1990

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Object	Description	Location	Source
Objects of Geologic Interest	The area contains a unique canyon and bench system. The entire ISA contains outstanding scenery. Examples include the area east of Horse Canyon. Four canyons have isolated 10 benches of varying size . Many bench tops have intricate pattern of innumerable orange-red Kayenta Sandstone knobs. Wolverine Canyon and Death Hollow have extremely narrow and convoluted sections. Another feature, Harris Wash a canyon of the classic Escalante River drainage canyon form with many entrenched meanders in the Navajo Sandstone.	North Escalante Canyons/The Gulch ISA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Mollie's Nipple, an erosional remnant is a major landmark in the area.	Kaiparowitz Plateau.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Natural Arches. Sam Pollock Arch, located at the head of a tributary drainage of Hackberry Canyon, and Starlight Arch located west of No Man's Mesa.	Paria-Hackberry WSA.	UT BLM Statewide Final Wilderness EIS, 1990

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Object	Description	Location	Source
Objects of Geologic Interest	Area of diverse geology represented by spectacular deep canyons. The Escalante River Canyon is 1100 feet deep. The canyon walls are rough and broken and the canyon is narrow and it meanders. Pure white to golden sandstone has been eroded into expanses of slickrock. Death Hollow Canyon is 1,000' feet deep and meandering . The extensive upper basin through which Mamie Creek flows is a extremely dissected area of canyons, tanks, other formations. Red layers of Carmel Formation cap high mesas and ledges of the exposed Kayenta Formation.	Phipps-Death Hollow WSA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Petrified wood deposits just west of the Old Paria Townsite and in Hackberry Canyon. Both are in the Chinle formation.	Paria-Hackberry WSA.	UT BLM Statewide Final Wilderness EIS, 1990

**List of Historic and Scientific Objects of Interest
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Object	Description	Location	Source
Objects of Geologic Interest	All the topographic features of the Kaiparowits region have been developed in sedimentary rocks. The Kaiparowits Plateau is a slightly tilted sedimentary mass that extends as a narrow mesa from the High Plateaus to Glen Canyon 70 miles distant. Its culminating point, Canaan Peak is an outlier of the Table Cliff Plateau; the Paria Plateau is a huge block of sandstone, the Waterpocket monocline is a ridge of folded rock intricately dissected and flanked by hogbacks, and the broken "comb" in the vicinity of Paria is the edge of sandstone beds upturned in the East Kaibab fold. The Circle Cliffs are inward-facing walls of sandstone that rim an oval depression. These prominent features are but large-scale examples of the mesas, buttes, and ridges that characterize the landscape of southern Utah.	Kaiparowitz Plateau.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Paria River from Colorado River to its source, identified by NPS as possessing values that may be of national significance, potential to be included in the National Wild and Scenic River System.	Paria-Hackberry WSA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	Escalante River from Lake Powell to its source, a section of 14.9 miles, was designated as for study as a candidate Wild and Scenic River by the Secretary of the Interior on 10/11/70.	Phipps-Death Hollow WSA.	UT BLM Statewide Final Wilderness EIS, 1990

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Object	Description	Location	Source
Objects of Geologic Interest	Lower Calf Creek Falls. Calf Creek Canyon is characterized by red alcoved walls, 2 waterfalls, and extensive expanses of white slickrock. Lower Calf Creek Falls drops 126' and Upper Calf Creek's drop is 86'. High educational values associated with interpretation of these areas.	Phipps-Death Hollow WSA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Geologic Interest	The area contains 40 miles of perennial streams, a significant feature in this arid environment.	Phipps-Death Hollow WSA.	UT BLM Statewide Final Wilderness EIS, 1990
Objects of Paleontologic Interest	Fossil assemblage photographs. Typical mollusks from Tropic Shale, south of Escalante include straight cone cephalopods, ammonites, gastropods, and pelecypods and Cretaceous sharks teeth from the Straight Cliffs Formation.	Kaiparowits Plateau	Sargent, K.A., Environmental Geologic Studies of the Kaiparowits Coal-Basin, Utah. pp 14-15.
Objects of Paleontologic Interest	Gray Cliffs/Pink Cliffs - This sequence of rocks may contain one of the best and most continuous records of Late Cretaceous terrestrial life in the world. Formation has yielded early mammals, lizards, dinosaurs , crocodillians, turtles, mollusks.	Kaiparowits Plateau - The Blues WSA	BLM, Escalante/Kanab RMP - Grand Staircase Ecosystem Analysis, 1994
Objects of Paleontologic Interest	Fossils deemed by the Museum of Northern Arizona in a 1976 study to be of major importance. They are found in the Cretaceous Wahweap Formation outcrops and include abundant fragments of turtle shells and dinosaurs, as well as several crocodile teeth. There is an excellent chance that mammal fossils will be found.	Kaiparowits Plateau - Nipple Bench Unit	BLM, Kaiparowits Power Project Environmental Impact Statement, 1976.

**List of Historic and Scientific Objects of Interest
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Object	Description	Location	Source
Objects of Paleontologic Interest	The Straight Cliffs Formation is limited to the southern Utah area. It contains primitive mammals including one of the potentially oldest marsupial fossils identified.	Kaiparowits Plateau	BLM, Warm Springs Project Preliminary Draft EIS, 1996.
Objects of Paleontologic Interest	Invertebrate and vertebrate specimens found Straight Cliffs, Tropic Shale, and Dakota Formations. 13 collection sites recorded (gastropods, cephalopods in upper Cretaceous Formations, vertebrate in Dakota and Tropic Shales). Likely to occur along entire length of the Straight Cliffs	Carcass Canyon WSA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Paleontologic Interest	The Kaiparowits is of interest in understanding the evolution of mammals and other terrestrial vertebrates. Very little is known of Cretaceous mammals prior to the latest part of that period. The mid-Cretaceous mammalian twilight zone is spanned by the fossiliferous, terrestrial rock units of the Kaiparowits region. They contain unique evidence bearing on the early diversification of important mammalian groups of the Late Cretaceous. The thickness, continuity, and broad temporal distribution of the Kaiparowits sequence provides the opportunity to document changes in terrestrial vertebrate assemblages over a wide span of Late Cretaceous time.	Kaiparowits Plateau	Eaton, Jeffrey G, and Cifelli, Richard L. Preliminary report on Late Cretaceous mammals of the Kaiparowits Plateau, southern Utah, 1988

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Object	Description	Location	Source
Objects of Paleontologic Interest	Extremely significant fossils including marine and brackish water mollusks, turtles, crocodillians, lizards, dinosaurs, fishes, and mammals have been recovered from the Dakota formation, Tropic Shale, Straight Cliffs Formation (Tibbet Canyon, Smoky Hollow, and John Henry members), and Wahweap formation in the area around the proposed Andalex mine and some localities lie directly along the proposed haul routes. This sequence of rocks (including the overlying Wahweap and Kaiparowits formations) contain perhaps the best and most continuous record of Late Cretaceous terrestrial life in the world.	Kaiparowits Plateau	Eaton, Jeffrey G., Personal correspondence to Mr. Mike Noel, BLM, 1991
Objects of Prehistoric Interest	Sixty sites have been recorded and the potential for additional sites is exceptionally high. Sites discovered to date include lithic scatters, 13 rockshelters (some w/storage cysts and rock art), 1 pithouse village site and 1 structure (probably of Anasazi origin). Some of the rock art and rock shelter and 1 campsite are potentially eligible for nomination to the NRHP.	North Escalante Canyons/The Gulch ISA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Prehistoric Interest	Friendship Cove Pictograph site nominated to NRHP. This site consists of a set of large Fremont style pictographs painted on the face of a large sandstone cliff.	Phipps-Death Hollow ISA, eastern part	Utah BLM Statewide Final Wilderness EIS, 1990.

**List of Historic and Scientific Objects of Interest
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Object	Description	Location	Source
Objects of Prehistoric Interest	Forty-four sites of diverse types have been recorded in the area. 14 rock art (petroglyph and pictographs sites (2 from Fremont culture)), 1 Pit-house village site, lithic scatters of Paiute and Anasazi , and 6 rockshelters have been discovered. Potential for more sites is good.	Phipps-Death Hollow ISA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Prehistoric Interest	Situated at the intersection of three major prehistoric cultures the Plateau has long been a magnet for archeological study. It has been recognized that the Kaiparowits Plateau might contain important clues that would aid in answering questions in the archeology of the Southwest.	Kaiparowits Plateau	Utah Wilderness Coalition. Wilderness at the Edge. p. 147 and Lister, Florence C., Kaiparowits Plateau and Glen Canyon prehistory, an interpretation based on ceramics, 1964.
Objects of Prehistoric Interest	Fiftymile Mountain Archeological District contains more than 400 sites including Anasazi habitations and granaries. Important scientific value. Some of the most significant cultural resources in the Four Corners area. Archaeological District (47,325 acre) has been nominated to NRHP. Majority of sites are masonry structures (of 1-10 rooms). Most are of Virgin Anasazi origin but include sites attributed to Fremont, Hopi, and Paiute. Navajo are also expected of occupying the area. 4,000 total sites may be located in WSA.	Fiftymile Mountain WSA	Utah BLM Statewide Final Wilderness EIS, 1990.

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Object	Description	Location	Source
Objects of Prehistoric Interest	Sixty-five sites have been recorded. They include lithic and ceramic scatters, masonry structures (granaries and storage cysts), one rock shelter. Masonry and some lithic/ceramic associated with Virgin Anasazi/Virgin-Kayenta Anasazi. Two are Pueblo II-III time period. Some sites are associated with Paiute-age or Archaic-age peoples. At least 8 sites in this area are eligible for nomination to the NRHP.	Wahweap WSA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Prehistoric Interest	High concentration of prehistoric sites. Although surveys are incomplete for the Warm Creek unit more than 600 sites have been found ranging from lithic scatters and campsites to rockshelters.	Kaiparowits Plateau/Warm Creek unit	BLM, Kaiparowits power project environmental impact statement, 1976.
Objects of Prehistoric Interest	Part of a larger area extensively used by the Kayenta Anasazi and later the Southern Paiute Indians. Site densities expected to be moderate to high.	Kaiparowits Plateau/Squaw Canyon unit	ERT, 1980, Kaiparowits coal development and transportation study, final report.
Objects of Prehistoric Interest	Prehistoric site densities are high on top of Nipple Bench. Sites represent Fremont, Virgin Anasazi and Kayenta Anasazi. The sites represent complex associations of features and artifacts and indicate permanent or extensive camps in rock shelters.	Kaiparowits Plateau/Nipple Bench unit	Fish, Paul, Preliminary Report Kaiparowits Power Project.
Objects of Prehistoric Interest	Six sites have been recorded. One is Pueblo II Anasazi occupation site, with others unidentified.	Burning Hills WSA	Utah BLM Statewide Final Wilderness EIS, 1990.

**List of Historic and Scientific Objects of Interest
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Object	Description	Location	Source
Objects of Prehistoric Interest	One hundred-five sites (primarily lithic scatters) have been recorded covering a broad period of occupation. Ten rockshelters w/storage cysts or storage caches, 1 w/masonry room, 3 w/granaries associated with Anasazi or Fremont have been discovered. Additional sites include petroglyph and pictograph panels associated with shelter sites and 1 burial site.	Carcass Canyon WSA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Prehistoric Interest	One hundred thirty-four documented sites represent virtually all known prehistoric cultures in southern UT (Archaic, Fremont, Anasazi, Southern Paiute). 8,000 years of prehistory are represented. The sites primarily represent temporary habitation by hunter gatherers.	Death Ridge WSA	BIM Utah Statewide Wilderness EIS, 1990, and Hauck, F.R., Cultural Resource Evaluation of South-Central Utah, 1977-1978.
Objects of Prehistoric Interest	The area contains 41 recorded sites and based on surveys may contain exceptionally high densities of sites.. Known sites include rockshelters, pit houses, lithic scatters, and masonry structures. Pictograph panels are in Deer Creek Canyon and petroglyphs are found in Snake Creek Canyon. A study located and estimated 612 sites per 23,000 acres, 564 potentially eligible for nomination to the NRHP (southern border of WSA). Another inventory estimated 360 sites per 23,000 acres at the northern border of the WSA.	Paria-Hackberry WSA	Utah BLM Statewide Final Wilderness EIS, 1990.

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Object	Description	Location	Source
Objects of Prehistoric Interest	The Kayenta Pueblo culture inhabiting the Straight Cliff and portions of the Escalante River drainage between AD. 1000 and 1200 were likely in contact with the Fremont culture. Although both inhabited the area at the same time and competed for limited agricultural lands there is no evidence of open conflict during this time. Some modifications of pottery making techniques between the two cultures indicates that there was trade and exchange between them. Little is known positively about the Kayenta culture, and additional research in this area could provide valuable insight on interactions between the two cultures.	Straight Cliffs WSA	Lister, Kaiparowits Plateau and Glen Canyon Prehistory: An interpretation based on ceramics. 1964.
Objects of Historic Interest	Dance Hall Rock/Hole-in-the-Rock Trail. While the Hole-in-the-Rock Trail was under construction in 1879, Mormon Pioneers camped at Fourtymile Spring and held meetings and dances in the shelter of Dance Hall Rock. Designated historical site by DOI 1970.	Two miles west of the Glen Canyon NRA on the Hole-in-the-Rock Trail	Utah Wilderness Coalition. Wilderness at the Edge. P 182.
Objects of Historic Interest	Historic route constructed in 1879 to provide access from Escalante to areas on the opposite side of the San Juan River in Southeast Utah.	Historic trail running from Escalante to Hole in the Rock in Glen Canyon NRA	Lambrechtse, Rudi. Hiking the Escalante, 1985.
Objects of Historic Interest	Boulder Mail Trail. Used to carry mail between Escalante and Boulder beginning in 1902. Much of trail still visible where necessary to construct through slickrock. Nominated to NRHP. Popular backpacking route.	Phipps-Death Hollow ISA	Utah BLM Statewide Final Wilderness EIS, 1990.

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Object	Description	Location	Source
Objects of Historic Interest	Boynton Road. Constructed 1909 as short cut between Escalante and Salt Gulch. Abandoned after 2 years because of flooding . Visible over approx 9 of its 10 miles.	Phipps-Death Hollow ISA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Historic Interest	Escalante-Boulder telephone line: First Boulder-Escalante telephone line constructed by Forest Service in 1911 providing first phone service to area. Still visible between Antone Flat and Sand Creek.	Phipps-Death Hollow ISA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Historic Interest	Washington Phipps grave. A historical grave site of an early pioneer shot in 1878 in a dispute with his partner John Boynton. Provided the namesake for the area.	Phipps-Death Hollow ISA	Lambrechtse, Rudi. Hiking the Escalante, 1985.
Objects of Historic Interest	Old Boulder Road. Main route between Escalante and Boulder until the CCC built Hell's Backbone Road and Highway 12 in 1930's to replace it.	Phipps-Death Hollow ISA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Historic Interest	The Hattie Green mine, an early copper working located on the crest of The Cockscomb.	The Cockscomb WSA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Historic Interest	Old Paria Townsite was established in 1874 on the bench above the eastern bank of the Paria River by Mormon settlers who attempted to farm the bottomlands. Site was abandoned in 1890.	adjacent to Paria-Hackberry WSA	Abby, Edward and Hyde, Philip. Slickrock p.46.
Objects of Historic Interest	Old Paria Townsite movie set. Built in the 1960's to film several movies. Now abandoned but still a popular recreation destination.	adjacent to Paria-Hackberry WSA	Abby, Edward and Hyde, Philip. Slickrock p.46.

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Object	Description	Location	Source
Objects of Biological Interest	Riparian zones are corridors for many of the region's species, including neotropical migrant birds. The corridors (including the Escalante, and Paria Rivers and Johnson Creek and their tributaries) bisect the region north to south allowing for exchange of individuals among different animal populations. The importance of movement corridors to the long term viability of animal populations is of great scientific and management interest. This area would afford many opportunities to enhance this ecological issue.	Entire monument proposal including the Escalante area, Kaiparowits Plateau, and areas west to Kanab including the Escalante, Paria rivers and Johnson Creek	Edwards, Tom, 1996; Knopf, 1985; Armbruster and Lande, 1993; Beier, 1993; Belovsky, 1987; Brown, 1971; Davidson et al., 1996; Diamond, 1981; Fahrig and Merriam, 1985; Frankel and Soule, 1981; Harris and Gallagher, 1989; Heaney, 1984; IUCN, 1978; Kushlan, 1979; Lomolino and Channell, 1995; Meffe and Carroll, 1994; Newmark, 1995; Noss, 1993; Patterson, 1984; Pickett and Thompson, 1978, Primack, 1993; Saunders et al., 1991; Shaffer, 1981; Soule, 1987; Soule and Wilcox, 1980; Wegner and Merriam, 1979; Wilcove et al., 1986; Willis, 1974.

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Object	Description	Location	Source
Objects of Biological Interest	25 miles of riparian corridor in unit. Connects mountains to desert lowlands. Has great concentration of hanging gardens and riparian vegetation, including relictual populations in canyon bottoms. Also supports many rock crevice communities. Connects other protected areas. High plant endemism, due to large extent of parent material exposure.	Escalante River	BLM Wilderness EIS; Knopf, 1985; Shulz, 1993; Armbruster and Lande 1993; Beier, 1993; Belovsky, 1987; Brown, 1971; Davidson et al., 1996; Diamond, 1981; Fahrig and Merriam, 1985; Frankel and Soule, 1981; Harris and Gallagher, 1989; Heaney, 1984; IUCN, 1978; Kushlan, 1979; Lomolino and Channell, 1995; Meffe and Carroll, 1994; Newmark, 1995; Noss, 1993; Patterson, 1984; Pickett and Thompson, 1978; Primack, 1993; Saunders et al., 1991; Shaffer, 1981; Soule, 1987; Soule and Wilcox, 1980; Wegner and Merriam, 1979; Wilcove et al., 1986; Willis, 1974.

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Object	Description	Location	Source
Objects of Biological Interest	Riparian corridor links high country to lowland desert scrub. Connects protected areas. Has high concentrations of isolated communities: hanging garden, rock crevice and canyon bottom communities. Also has an abundance of packrat middens.	Paria River	Van Devender and Spaulding, 1979; BLM Wilderness EIS; Knopf, 1985; Shulz, 1993; Armbruster and Lande 1993; Beier, 1993; Belovsky, 1987; Brown, 1971; Davidson et al., 1996; Diamond, 1981; Fahrig and Merriam, 1985; Frankel and Soule, 1981; Harris and Gallagher, 1989; Heaney, 1984; IUCN, 1978; Kushlan, 1979; Lomolino and Channell, 1995; Meffe and Carroll, 1994; Newmark, 1995; Noss, 1993; Patterson, 1984; Pickett and Thompson, 1978; Primack, 1993; Saunders et al., 1991; Shaffer, 1981; Soule, 1987; Soule and Wilcox, 1980; Wegner and Merriam,
Objects of Biological Interest	Fifty miles of perennial streams including the Paria River (which is a wild and scenic river inventory segment). Riparian vegetation covers 500 acres.	Paria-Hackberry WSA	Utah BLM Statewide Final Wilderness EIS, 1990.

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Object	Description	Location	Source
Objects of Biological Interest	<p>Three major floras meet in this area. Plants from the Mojave, Arizona deserts and northern Utah are all found here, with a few species from the Great Plains. The Colorado Plateau is surrounded by high mountains, isolating the flora and fauna. Unlike many ecosystems, the plant density, diversity and stature within the monument is determined more by substrate than climate.</p> <p>Consequently, isolation, plus the great diversity of substrates (providing a wider range of soil chemistry and physical characteristics) found within close proximity to each other has resulted in a high level of plant endemism in this area. Eleven species found in the monument are found nowhere else in the world. Of plants that occur only in Utah or on the Colorado Plateau, 125 species occur in the monument. The Canyonlands portion of the Colorado Plateau, much of which is contained in the monument, is considered the richest floristic region in the Intermountain West, and contains 50% of Utah's rare and endemic plants. 90% of these rare and endemic species are found on substrates typical of most of the monument.</p>	Entire monument	<p>Kaiparowits Power Project EIS; Axelrod, 1960; Utah Natural Heritage Program plant database; Nabhen and Wilson, 1996; Shulz, 1993; Albee et al., 1988; Welsh, 1974; Welsh et al. 1975; Hintze, 1988; Datt, 1996; Shreve, 1942; Cronquist et al., 1977; Utah Natural Heritage Program plant database.</p>

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Object	Description	Location	Source
Objects of Biological Interest	The Colorado Plateau was uplifted and downcut without deformation. As a consequence, large areas of unmixed geologic parent materials are exposed, and plants must adapt to large array of highly distinct parent materials. These substrates are sharply demarcated, and often occur within a few meters of each other. This situation offers the unique opportunity to examine the role of soil physical and chemical characteristics in determining plant and animal community structure independent of climatic variables, an important ecological question. It also results in different plant community structure and dynamics than is generally observed in other ecosystems. This area contains shales, siltstones, mudstones, sandstones and limestone of differing depths, and deposited in a variety of environments (marine, freshwater and eolian). Each soil depth and depositional environment has very different chemical and physical characteristics. As a result, there is a great diversity of substrates in this area, each supporting a unique plant community.	Entire monument	Hintze, 1988; Nabhen and Wilson, 1996; Gross, 1987; Dott, 1996; Roberts, 1987.

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Object	Description	Location	Source
Objects of Biological Interest	The presence of steep elevational gradients gives the opportunity to sort out the role of temperature and precipitation in structuring plant and animal communities. Elevational gradients have traditionally been used by scientists as a way of examining factors controlling biotic community structure. Juxtaposition of diverse substrates and elevational gradients gives an unparalleled opportunity to determine the respective roles of soil chemistry, physical characteristics, elevation, rainfall and temperature in structuring biotic communities. In addition, it allows for high biodiversity in a small area.	Entire monument	Kaiparowits Power Project EIS; Axelrod, 1960; Utah Natural Heritage Program plant database; Nabhen and Wilson, 1996; Shulz, 1993; Albee et al., 1988; Welsh, 1974; Welsh et al. 1975; Hintze, 1988; Dott, 1996; Shreve, 1942; Cronquist et al., 1977
Objects of Biological Interest	The Escalante Plateau is the home to approximately 300 species of amphibians, birds, mammals, and reptiles. This diverse set of wildlife species includes over 20 species of birds of prey including the bald eagle, peregrine falcon, and was the historical range of the condor. The region contains 2 of the 7 recognized centers of endemism for fishes of the western United States.	Escalante Plateau	Davidson et al. 1996; Tom Edwards, 1996, Behnke, R.J., and Zar, M., 1976.
Objects of Biological Interest	Contains many different geologic substrates (therefore soils with different physical and chemical attributes) in a small area. The majority of endemic in Utah are found on these particular substrates; consequently, this area is expected to have a high concentration of endemics.	Escalante -along boundary of Glen Canyon NRA and Capital Reef National Park	Utah Natural Heritage Program plant database; Nabhen and Wilson, 1996; Shulz, 1993; Albee et al., 1988; Welsh, 1974; Welsh et al. 1975; Hintze, 1988.

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Object	Description	Location	Source
Objects of Biological Interest	Large expanses of fine-textured soils (Morrison, Mancos/Tropic) shales support large number of endemic plant species, fossils.	Henrieville to Escalante	Hintze, 1988; Shulz, 1993; BLM Wilderness EIS.
Objects of Biological Interest	An exposed monocline with many soils/substrates in close juxtaposition provides tremendous biodiversity of both general and endemic flora. High salt content of stream provides habitat for salt-tolerated riparian plants. Provides a elevational gradient from ponderosa pine to desert scrub. In addition, the rocky substrate has provided refugia for many Arcto-Tertiary plants, providing a unique opportunity to examine the effects of ancient floral presence in the structuring of present-day plant communities. This area also supports a very high diversity of both general and endemic flora.	The Cockscomb	Hintze, 1988; Shulz, 1993; Albee et al., 1988; Axelrod, 1960; Welsh, 1978; Stevens, 1992; Dott, 1996.

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Object	Description	Location	Source
Objects of Biological Interest	Contains a concentration of many different geologic substrates/soils with different physical and chemical attributes . This area has a high concentration of endemics. This boundary also abuts protected areas (Glen Canyon, Capitol Reef), thereby effectively increasing the value of all three areas for biological conservation. In addition, the Waterpocket Fold has isolated two outcrops of the same parent material. These two areas now support different floras. This presents an outstanding scientific opportunity to explore processes of speciation.	Far eastern boundary	Hintze, 1988; Shulz, 1993; Albee et al., 1988; Axelrod, 1960; Welsh, 1978; Stevens, 1992; Dott, 1996; Armbruster and Lande, 1993; Fahrig and Merriam, 1985; Beier, 1993; Belovsky, 1987; Brown, 1971; Davidson et al. 1996; Diamond, 1981; Frankel and Soule, 1981; Harris and Gallagher, 1989; Heaney, 1984; IUCN, 1978; Kushlan, 1979; Lomolino and Channell, 1995; Meffe and Carroll, 1994; Newmark, 1995; Noss, 1993; Patterson, 1984; Pickett and Thompson, 1978; Primack, 1993; Saunders et al., 1991; Shaffer, 1981; Soule, 1987; Soule and Wilcox, 1980; Wegner and Merriam,

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Object	Description	Location	Source
Objects of Biological Interest	This is an exposed monocline. Consequently, many substrates (Summerville, Morrison, Dakota, Tropic, Entrada, Navajo, Wingate and Carmel) are exposed directly next to each other, providing an opportunity for studies of ecological processes independent of climate. This monocline also has an elevational gradient, facilitating the study of effects of temperature and moisture on community dynamics. In addition, the rocky substrate has provided refugia for many Arcto-Tertiary plants, providing a unique opportunity to examine the effects of ancient floral presence in the structuring of present-day plant communities. This area also supports a very high diversity of both general and endemic flora.	Straight Cliffs area	Hintze, 1988; Shulz, 1993; Albee et al., 1988; Axelrod, 1960; Welsh, 1978.
Objects of Biological Interest	Diversity of plant life ranging from low desert shrub to Ponderosa Pine (less than 1 mile apart) enhances the study and observation of ecology. 3 small stands of Ponderosa pine in Alvey Wash.	Death Ridge WSA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Biological Interest	Contained within the monument are 3-5 spatially separated areas where the same substrates are exposed in close proximity to each other. In addition, there are 5 elevational gradients along riparian corridors. This is critical for replicated scientific work to be conducted.	Entire monument	Hintze, 1988; USGS. Topographical Maps

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Object	Description	Location	Source
Objects of Biological Interest	Riparian corridor with elevational gradient, connecting desert low lands to the high country. Vermillion, White, Pink Cliffs (Triassic, Jurassic, Cretaceous material).	Johnson's Creek	Hintze, 1988; USGS Topographical Maps; Beier, 1993; Noss, 1992, 1993.
Objects of Biological Interest	Fifty Mile Mountain. Presence of aspen on Pleasant Grove, Steer Canyon, and Pinto Mare Canyons.	Fifty Mile Mountain WSA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Biological Interest	Protects lands at low elevation sites frequently rich in species diversity. The range of elevation in these areas from approximately 4500-8300 feet encompasses a wide variation in elevation and will capture the full diversity of plant and animal species in the region.	Entire monument proposal including the Escalante area, Kaiparowits Plateau, and areas west to Kanab	Hintze, 1988; Utah BIM Final Wilderness EIS, 1990

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Object	Description	Location	Source
Objects of Biological Interest	The monument contains an abundance of hanging gardens, tinajas, canyon bottom, dunal pockets, salt-pocket and rock crevice communities. These small, isolated populations often contain unusual, often relictual plants and animals. Hanging gardens and canyon bottom communities harbor riparian plants and their pollinators, as well as unique vertebrates (bats and small mammals) and soil fauna. Tinajas are important aquatic resources, and contain a diverse array of tadpole, fairy and clam shrimp, amphibians, algae, water beetles, other crustaceans, snails, mosquito and gnat larvae and aquatic/riparian plants. Highly saline areas are found around many seeps and streams, and consist of plants and animals adapted to highly saline conditions. Dunal pockets contain species adapted to shifting sands, while rock crevice communities consist mostly of slow-growing species that can thrive in extremely infertile sites. These communities offer a chance to examine gene flow dynamics, and to distinguish the respective role of pollen versus seeds. They offer an opportunity to study ground water	Entire monument	Nabhen and Wilson, 1996; Harper et al., 1994; Welsh et al., 1993; May et al., 1995; Fowler et al., 1995; Graff, 1988.

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Object	Description	Location	Source
Objects of Biological Interest	These canyons provide a high concentration of isolated, unique plant and invertebrate communities: hanging garden, rock crevice, and canyon bottom communities. Many relictual plant species can be found in these communities. Pack rat middens are abundant, providing paleoclimate and paleo-vegetation information.	Escalante canyons	Axelrod, 1960; BLM Wilderness EIS; Van Devender and Spauling, 1979; Fowler et al., 1995; Nabhen and Wilson, 1996.
Objects of Biological Interest	Dunal pockets contribute Great Plains species to the flora. These are unique, isolated plant communities.	Cockscomb to Kaiparowits	Hintze, 1988.
Objects of Biological Interest	Unique, isolated communities are located throughout the monument. These include hanging gardens, tinajas, canyon bottom, dunal pocket, salt pocket and rock crevice communities. They provide great opportunities for examining evolution, gene flow, island biogeography and other ecological principles.	Entire monument	Case and Cody, 1988; Diamond, 1981; Dott, 1996; Harris, 1984; Ludwig and Whitford, 1981; Fowler et al., 1995; Nabhen and Wilson, 1996; Roberts, 1987; Reice, 1994; Axelrod, 1960.

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Object	Description	Location	Source
Objects of Biological Interest	Biological conservation theory and literature suggests that large contiguous conservation areas increase both extent and probability of population survival, increases protection of migratory pathways, and is the most effective means of conserving aquatic and riparian communities.	Entire monument	Soule, 1987; Davidson et al., 1996; Miller, 1961; Minckley and Deacon, 1968; Armbruster and Lande, 1993; Fahrig and Merriam, 1985; Beier, 1993; Belovsky, 1987; Brown, 1971; Davidson et al. 1996; Diamond, 1981; Frankel and Soule, 1981; Harris and Gallagher, 1989; Heaney, 1984; IUCN, 1978; Kushlan, 1979; Lomolino and Channell, 1995; Meffe and Carroll, 1994; Newmark, 1995; Noss, 1993; Patterson, 1984; Pickett and Thompson, 1978; Primack, 1993; Saunders et al., 1991; Shaffer, 1981; Soule, 1987; Soule and Wilcox, 1980; Wegner and Merriam, 1979; Wilcove et al.,

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Object	Description	Location	Source
Objects of Biological Interest	The connection with Glen Canyon provides a larger protected area. It also provides low desert vegetation as part of the vegetational gradients. Large areas are important for maintaining the evolutionary potential of plants and animals, allowing for the exchange of genetic material among the separate populations that constitute a population.	Common boundaries and riparian connections with Glen Canyon NRA, Capitol Reef NP, Box Hollow Wilderness and Paria Wilderness	Hintze, 1988; Shulz, 1993; Albee et al., 1988; Axelrod, 1960; Welsh, 1978; Stevens, 1992; Dott, 1996; Armbruster and Lande, 1993; Fahrig and Merriam, 1985; Beier, 1993; Belovsky, 1987; Brown, 1971; Davidson et al. 1996; Diamond, 1981; Frankel and Soule, 1981; Harris and Gallagher, 1989; Heaney, 1984; IUCN, 1978; Kushlan, 1979; Lomolino and Channell, 1995; Meffe and Carroll, 1994; Newmark, 1995; Noss, 1993; Patterson, 1984; Pickett and Thompson, 1978; Primack, 1993; Saunders et al., 1991; Shaffer, 1981; Soule, 1987; Soule and Wilcox, 1980; Wegner and Merriam,

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Object	Description	Location	Source
Objects of Biological Interest	Cryptobiotic soil crusts are critical for soil stability, nutrient availability for vascular plants and normal soil surface temperatures. These crusts are extremely fragile and easily disrupted by soil surface disturbances such as trampling or off-road vehicles. Since the soils in the monument are highly susceptible to erosion, it is important that these biocrusts be protected so they stabilize these erodible soil surfaces. In addition, these ecosystems have few nitrogen-fixing plants. Since these crusts provide nitrogen to these soils, they are a critical part of these nitrogen-limited ecosystems.	Entire monument	Belnap, 1994, 1995; Belnap and Harper, 1995; Belnap et al., 1994; Jefferies, 1989; Harper and Marble, 1988; Johansen, 1993; Mack and Thompson, 1978; Fleischner, 1994.
Objects of Biological Interest	Disturbance of most soil surfaces in the monument area will result in soil surface temperature changes as bio-crusts are darker than the substrates underneath them. The expected lowering of temperature with disturbance would result in cooler soil temperatures, and thus later spring plant germination and lower nutrient uptake rates. This may adversely effect desert plant growth in early spring. Surface temperatures also influence foraging and burrowing patterns for many soil invertebrates, and many effect community dynamics of these species.	Entire monument	Ludwig and Whitford 1981; Belnap 1995.

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Object	Description	Location	Source
Objects of Biological Interest	Ecosystems in this area are some of the most stable documented to date, as both large and small scale disturbances are limited spatially and temporally. Very little of this area was glaciated in the Pleistocene. Most plant communities evolved without fire or grazing by large ungulate herds, as evidenced by characteristics of the soils and the flora. Catastrophic events are minimal, with the exception of wash bottoms. Microsite disturbances are minimal as well, as most soils support very low populations of invertebrates. 1880 photos repeated in 1990 show many sites virtually unchanged, with the same tree, shrub and grass individuals present, indicating very low species' turnover rates in this region relative to other ecosystems. In addition, dead tree branches can still be found in virtually the same condition as they were 100 years ago, indicating plant tissue decomposition rates are extremely low in this region. This makes this area highly unique, as most ecosystems are believed to be structured disturbance. In this region, ecological processes can be studied independent of the effects of	Entire monument	Belnap, 1995, 1996; Belnap et al., 1994; Mack and Thompson, 1982; Fleischner, 1994; Kleiner and Harper 1972; Harper et al., 1994; Webb, 1994; Rogers, 1982; Pickett and White, 1985; Moldenke, 1995; Evans and Bhleringer, 1993; Turner et al. 1993; Iverson et al. 1981; Webb and Wilshire 1981; Larsen 1996; Bowers et al. 1994.

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Object	Description	Location	Source
Objects of Biological Interest	Isolation of this area has resulted in minimal human impacts. Many of the ecosystems found in this area have received little, if any, human use and the type and extent of disturbance has that has occurred is known. In addition, there are large areas unbroken by roads. This is essential to the protection and conservation of plant and animal species.	Entire monument	Wilcox et al 1986; Wilcox and Murphy 1985; Mader et al., 1990; Osley, et al., 1974; Rost and Bailey, 1979; Witmer and Calesta, 1985
Objects of Biological Interest	The monument lacks any areas that have been invaded to any large extent by exotic species. There are few such areas in the Intermountain West, and they can provide invaluable information in understanding the ecology and dynamics of exotic plant invasion. These areas aid scientists in understanding what makes systems resistant to such invasions, and thus help land managers predict what areas are susceptible to invasion and restore already-invaded regions.	Entire monument	Billings, 1994; Fleischner, 1994; Forcella and Harvey, 1983; Gross, 1987; Hunter, 1990; Loope et al., 1988; MacMahon, 1987; Pellant and Hall, 1994
Objects of Biological Interest	Six threatened or endangered candidate species are located within or near this area.	Wahweap WSA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Biological Interest	Contains Peregrine falcon (endangered) and 6 special status animal species and 5 special status plant species.	Mud Spring WSA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Biological Interest	Habitat for Swainson's hawk, golden eagle (Sensitive) and peregrine falcon (endangered).	The Blues WSA	Utah BLM Statewide Final Wilderness EIS, 1990.

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Object	Description	Location	Source
Objects of Biological Interest	Peregrine falcon and bald eagle (endangered). 8 animal and 5 plant species of special status.	Paria-Hackberry and Cockscomb WSA and Wahweap WSA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Biological Interest	Thirteen species of raptors are known or suspected of nesting in the WSA.	Burning Hills WSA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Biological Interest	Relict plant community in the upper part of Dry Valley "probably possesses important scientific values"	Mud Springs Canyon WSA	Utah BLM Statewide Final Wilderness EIS, 1990.
Objects of Biological Interest	Unique relict plant community of pinion-juniper and sagebrush-grass park vegetation accessible only by a steep trail. One of the few remaining unaltered plant communities in Utah. No Man's Mesa RNA was designated as an ACEC in 1986. Such areas are invaluable to science. They provide restoration and management goals for administration of lands. Such areas are also critical to scientists who are trying to understand the natural functioning of ecosystems. Grasslands are especially valuable, as almost all have been heavily grazed for over a century.	Paria-Hackberry WSA (No Man's Mesa and Little No Man's Mesa)	Utah BLM Statewide Final Wilderness EIS, 1990 and Kleiner and Harper, 1972
Objects of Biological Interest	Four Mile Bench Old Tree Area. Unique area of extremely old (1,400 years) pinon and juniper trees. Unique scientific values on over 1,000 acres.	Wahweap WSA	Utah BLM Statewide Final Wilderness EIS, 1990.

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Object	Description	Location	Source
Objects of Biological Interest	This region is at the northern end of areas that receive summer monsoonal rains, and is at the southern end of areas that depends on winter rains. This distinction is very important to the physiological functioning of plants in this moisture-limited areas, as even minor changes in temperature and/or rainfall may lead to major differences in water availability, and consequently, plant metabolic processes. Climate change is expected to alter both rainfall timing and amount, as well as temperature. This, in turn, would alter plant physiology, water use patterns and community composition in this region, making the monument an excellent place for studying global climate change.	Entire monument	Ayyad 1981; Graff 1988; Van Devender and Spaulding 1979; Wagner 1981.
Objects of Biological Interest	Unlike most deserts that are primarily depositional environments, the CP is an erosional one (Welsh 1979; Nat Hist). This contributes to high endemism, as substrate material is not mixed. In addition, it makes this region highly susceptible to soil loss when surfaces are disturbed. This soil loss has a negative impact on plant and aquatic communities, as well as dam sediment loads.	Entire monument	Welsh, 1979; Harper et al., 1994.

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Object	Description	Location	Source
Objects of Biological Interest	The effects of scaling up and down are not known for many ecological processes. The multitude of variably sized, discrete watersheds found in this area offer a unique opportunity to test the effects of scaling for hydrological and biological processes. In addition, the close spacing of these watersheds offers a chance to separate the effects of area per se from other environmental factors on community structure.	Entire monument	Allen and Hoekstra 1987; Reice 1994; Pickett and White 1985; Rosenweig 1985.
Objects of Biological Interest	Semi-arid and arid lands of the western United States are highly susceptible to desertification. The lack of natural disturbance in much of this area offers the opportunity to study the effects of different types and levels of land use and to better understand the steps leading to desertification.	Entire monument	Dregne, 1983.
Objects of Biological Interest	This area contains few exotic plants. Having this resource gives the opportunity to better understand what factors inhibit or facilitate exotic plant invasions. Roads have been heavily implicated in facilitating exotic plant invasion, while intact Cryptobiotic soil crusts and less favorable soil chemistry may inhibit such an invasion. Invasion could fundamentally alter these communities, by altering species composition, community dynamics and fire cycles.	Entire monument	Monsen and Kitchen, 1994; Kelly 1996; Harper and Marble 1988; Davidson et al. 1996.

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Object	Description	Location	Source
Objects of Biological Interest	Quaternary resources are abundant in the monument. Pack rat middens enable reconstruction of paleoclimates and paleo-vegetation, while Pleistocene animal remains found in alcoves.	Entire monument	Harper et al., 1994.
Objects of Biological Interest	Unlike more mesic ecosystems, there is little evidence that desert communities demonstrate traditional successional sequences. There is little or no modification of soils or other site characteristics by previous-occurring plants. Understanding of this is important for restoration efforts. The monument offers an excellent opportunity to study this phenomenon independent of climate and disturbance factors.	Entire monument	Barbour, 1981; MacMahon, 1987; Shreve, 1942; Dott, 1996.
Objects of Biological Interest	Peregrine falcon and Bald Eagle use these areas. Areas are habitat for 7 plant and 9 animal species considered sensitive.	Death Ridge and Fifty Mile Mountain WSAs	Utah Statewide Wilderness Study Report, 1991.
Objects of Biological Interest	Peregrine falcon and Bald Eagle use these areas. Areas are habitat for 8 plant and 7 animal species considered sensitive.	Phipps Death Hollow ISA and Steep Creek WSA	Utah Statewide Wilderness Study Report, 1991.
Objects of Biological Interest	Peregrine falcon and Bald Eagle use these areas. Areas are habitat for 9 plant and 7 animal species considered sensitive.	North Escalante Canyon, The Gulch and Carcass Canyon WSAs	Utah Statewide Wilderness Study Report, 1991.